

Prescription and Enrollment Form



COMPLETE THIS FORM FOR MYAGIOS™ PATIENT SUPPORT SERVICES AND FOR TIBSOVO® (IVOSIDENIB TABLETS) PRESCRIPTIONS

Use this page to determine where to send this form to get prescription fulfillment for TIBSOVO® and enrollment into myAgios™ Patient Support Services.

This form is not required for patients to apply for the Commercial \$25 Co-Pay Program for TIBSOVO. This program is for eligible patients with commercial insurance. To apply, please visit myAgios-copay.com*

*Please see myAgios.com for full Terms and Conditions.

SERVICE SELECTION DIRECTIONS

With this single form you can connect your patients taking TIBSOVO to a variety of services. Please choose 1 of the 3 paths below, depending on your needs.

1 Prescription fulfillment only (no need for patient support services)

- I want to keep the TIBSOVO prescription fulfillment at my associated office- or hospital-based pharmacy
- Do not use this form. Contact a specialty distributor directly (see myAgios.com)

OR

- I want a specialty pharmacy to dispense TIBSOVO for my patient
- Complete sections 1, 2, 3, 4, and 5. Section 6 is optional in the event of insurance delays or interruption
Note: In section 5, please choose "no" if your patient requires SP prescription fulfillment. QuickStart OR Coverage Interruption requests will not be initiated unless patient faces a delay in access or disrupted coverage.
- Fax to a network specialty pharmacy:

Biologics	Diplomat
Fax: 1-800-823-4506	Fax: 1-800-550-6272
Ph: 1-800-850-4306	Ph: 1-877-977-9118

2 Free product programs only (insurance delay, uninsured/underinsured patients)

- I would like support evaluating my patient for QuickStart OR Coverage Interruption programs
- Complete sections 1, 2, 3, 5, 6, and 7
Note: In section 5, select "yes" if you would like to keep the TIBSOVO prescription fulfillment at your associated office- or hospital-based pharmacy after the program is over; otherwise select "no." In section 6, select either 30-day QuickStart OR 30-day Coverage Interruption.
- Fax to myAgios: 1-844-409-1143

OR

- I would like my patient to be evaluated for the Patient Assistance Program since they do not have insurance or can't afford TIBSOVO
- Complete sections 1, 2, 3, 5, 6, 7, 8, and 9
- Fax to myAgios: 1-844-409-1143

3 Neither option 1 nor 2 above applies, or if you are looking for benefits investigation assistance only, or you are not sure

- Contact myAgios for assistance

Questions? Call myAgios at 1-844-409-1141 Monday to Friday, 8 AM to 6 PM ET

- ! BEFORE FAXING:**
- Be sure provider and patient have signed where indicated
 - Be sure to include completed form and a copy of both sides of the patient's insurance card(s)

Please see additional Important Safety Information on pages 6-7 and accompanying full Prescribing Information, including Boxed WARNING, and Medication Guide for additional Important Safety Information.



1 PATIENT INFORMATION



Patient name (first and last)

/ /

Date of birth (MM/DD/YYYY)

Male Female

Social Security number

(to be used for verifying identity and eligibility for some programs)

Mailing address (to be used for medication delivery):

Street address

City

State

ZIP

Primary phone (best contact number)

Alternate contact name and phone

2 INSURANCE INFORMATION

Please copy both sides of patient's insurance card(s)

Patient insurance (check all that apply): No insurance Medicare Medicaid Commercial/private Other

Primary health insurance

Plan name _____

Phone # _____ - _____ - _____

Policy ID # _____

Group # _____

Policy holder (if other than patient)

Name _____

Date of birth ____ / ____ / ____
(MM/DD/YYYY)

Prescription drug insurance

Plan name _____

Phone # _____ - _____ - _____

Policy ID # _____

Group # _____

Rx BIN # _____

PCN # _____

Secondary insurance

Plan name _____

Phone # _____ - _____ - _____

Policy ID # _____

Group # _____

3 PATIENT DIAGNOSIS

- C92 – Myeloid leukemia
- ICD-10-CM C92.0 – Acute myeloblastic leukemia
- ICD-10-CM C92.00 – Acute myeloblastic leukemia, not having achieved remission
- ICD-10-CM C92.01 – Acute myeloblastic leukemia, in remission
- ICD-10-CM C92.02 – Acute myeloblastic leukemia, in relapse
- Other ICD-10 (fill in below) _____

Current medications _____

Allergies _____

4 TIBSOVO PRESCRIPTION (ONLY required if fulfilling through a specialty pharmacy)

Please be sure to fill out the below information in its entirety, including number of refills.

Rx start date
____ / ____ / ____

TIBSOVO dosage _____

Quantity (days) _____ Refills _____

Instructions _____

The recommended dose for TIBSOVO is 500 mg (two 250-mg tablets) orally once daily until disease progression or unacceptable toxicity.

Physician Signature _____ Date ____ / ____ / ____

Please see additional Important Safety Information on pages 6-7 and accompanying full Prescribing Information, including Boxed WARNING, and Medication Guide for additional Important Safety Information.



PATIENT NAME _____ DOB ____/____/____



5 PRESCRIBER INFORMATION AND DECLARATION

Prescriber name _____	Prescriber specialty _____
Practice name _____	Practice contact _____
Phone _____ Fax _____	Street address _____
Email _____	City _____ State _____ ZIP _____
NPI # _____ Tax ID # _____	State license # _____
DEA # _____	Medicare/Medicaid provider # _____
Provider Transaction Access Number (PTAN) _____	

Mandatory: My practice wants to dispense TIBSOVO from an associated office- or hospital-based pharmacy: No Yes:

Pharmacy name _____ Pharmacy phone ____-____-____ Pharmacy fax ____-____-____

I certify that the patient and physician information contained in this enrollment form is complete and accurate to the best of my knowledge. I have prescribed TIBSOVO based on my judgment of medical necessity and I will be supervising the patient's treatment. I authorize, if appropriate, the forwarding of this prescription to an authorized specialty pharmacy on behalf of myself and the patient. I understand that neither I nor the patient may seek reimbursement from any government program or third-party insurer for any free product received under the program.

I certify that I have obtained the patient's authorization to release the above information and such other information as may be required by Agios or its agents to assist the patient in obtaining coverage for TIBSOVO, to assist the patient in initiating or continuing TIBSOVO therapy and to provide financial assistance to the patient.

If requesting QuickStart, I certify that this prescription is for a new patient with a positive test for an IDH1 mutation who either a) has newly diagnosed AML and is aged ≥ 75 years or has comorbidities that preclude the use of intensive induction chemotherapy, or b) has been diagnosed with relapsed/refractory AML.

Physician Signature _____ Date ____/____/____

Can myAgios™ Patient Support Services follow up with you regarding your experience by phone or email? No Yes

6 COVERAGE DELAY OR INTERRUPTION PROGRAMS

(If needed, select only 1 of the 2 programs below or call myAgios with questions)

30-day Coverage Interruption prescription for an existing privately insured patient

Note: May require documentation of a temporary loss of coverage.

Quantity: 30-day supply (250 mg tablets)

OR

30-day QuickStart prescription in the event of coverage delay of 5 or more days (available only for a new patient with a positive test for an IDH1 mutation who either a) has newly diagnosed AML and is aged ≥ 75 years or has comorbidities that preclude the use of intensive induction chemotherapy, or b) has been diagnosed with relapsed/refractory AML). **It is mandatory that you indicate the date the completed prior authorization form was submitted to the insurer. Please insert date here:** ____/____/____

Quantity: 30-day supply (250 mg tablets)

FREE PRODUCT PRESCRIPTION. Please be sure to fill out the below information in its entirety, including number of refills.

Rx start date ____/____/____ [Tibsovo (ivosidenib tablets 250 mg)]

Mandatory: Directions for use: _____

Refills: _____

The recommended dose for TIBSOVO is 500 mg (two 250-mg tablets) orally once daily until disease progression or unacceptable toxicity.

Physician Signature _____ Date _____
(Dispense as written). Signature stamps not acceptable.

Physician Signature _____ Date _____
(Substitution permitted). Signature stamp not acceptable.

Please see additional Important Safety Information on pages 6-7 and accompanying full Prescribing Information, including Boxed WARNING, and Medication Guide for additional Important Safety Information.



7 PATIENT AUTHORIZATION TO USE/DISCLOSE HEALTH INFORMATION

I understand that myAgios™ Patient Support Services is a service offered by Agios Pharmaceuticals, Inc. to help eligible patients who have been prescribed TIBSOVO obtain insurance coverage and financial assistance for TIBSOVO, including through its co-pay assistance, Quick Start, Coverage Interruption and Patient Assistance Program (the “Programs”).

I give permission for my physician and their staff to disclose my health and other personal information, including, but not limited to the information on this form, to Agios Pharmaceuticals, Inc. and its agents and representatives (collectively “Agios”) so that Agios may use and further disclose my information to healthcare providers, pharmacies, insurance companies, prescription drug plans and other third-party payers and patient assistance groups (collectively, “Third Parties”) in order to: (1) enroll me in the Programs; (2) facilitate the filling of my prescription for and the delivery and administration of TIBSOVO; (3) assist me in obtaining insurance coverage for TIBSOVO; (4) contact me about TIBSOVO and the Programs (this may include supplemental educational materials, information, offers and services related to my therapy or my medical condition, or opportunities to participate in focus groups, surveys, or interviews); and (5) manage the Programs.

I further authorize the Third Parties to disclose health and other personal information about me in their possession to Agios in order to assist Agios in accomplishing the purposes described above.

I understand that once my information is disclosed pursuant to this authorization, it may no longer be protected by federal privacy laws (the Health Insurance Portability and Accountability Act) or state privacy laws and may be further disclosed to others. However, I understand that Agios will not release my information to any party, except as provided in this authorization or as permitted by applicable law, without first obtaining my (or my authorized representative’s) separate written consent.

I understand that I may refuse to sign this authorization and such refusal will not affect my ability to receive TIBSOVO that is paid for by my insurer, my treatment, payment for treatment, eligibility for or enrollment in health benefits, but it will limit my ability to receive support services for TIBSOVO, including participation in free medication programs.

I understand that this authorization will remain in effect for 3 years, or a shorter period as may be required by state law, from the date of my signature, unless I revoke it earlier by contacting Agios in writing at AllCare c/o Agios Patient Support Services, 50 Bearfoot Rd, Northborough, MA, 01532. If I revoke this authorization, Agios and any Third Parties who are notified of my revocation will stop using and disclosing my information as soon as possible, but the revocation will not affect prior use or disclosure of my information in reliance on this authorization.

I understand that the services described in this authorization may be reduced at any time, without prior notification. However, if any services are added, Agios will obtain my authorization to receive any such additional services.

I understand that certain Third Parties may receive compensation in exchange for their disclosure of my information to Agios. I also understand that I have the right to receive a copy of this authorization.

I verify the information provided is true and correct. If I am the caregiver/representative for the patient, I confirm I am authorized to sign on behalf of the patient.

Patient name (print) _____ Representative name (print, if applicable) _____

Patient/Representative Signature _____ Date ____/____/____

Please see additional Important Safety Information on pages 6-7 and accompanying full Prescribing Information, including Boxed WARNING, and Medication Guide for additional Important Safety Information.



8 INTEREST IN PATIENT ASSISTANCE PROGRAM (PAP) FOR UNINSURED/UNDERINSURED PATIENTS

- Yes, please assess my eligibility for Patient Assistance Program (PAP)
- Yes, I am a US resident

Number of family members in household _____
 (people who contribute to or are dependent on the household income)

Annual gross pretax household income (prior 12 months) _____

Note: Dollar amount should be consistent with your 1040 tax form or W2.

- Yes, I understand that in order to qualify for the Patient Assistance Program I must meet program requirements. I certify that the information I have provided about my household income and size is accurate. I know that myAgios™ Patient Support Services may ask me for a copy of my recent tax returns or other proof of income for the purpose of an audit and I agree to provide such documentation in a timely manner, if requested. I certify that the information provided above is truthful and accurate to the best of my knowledge and that any other information I provide at Agios' request will be truthful and accurate.

I understand that my eligibility for the program is based on requirements determined by Agios in its discretion (that Agios™ Patient Support Services may change at any time) and that, if approved, I must reapply and continue to meet eligibility requirements on an ongoing basis. I certify that I will notify the Patient Assistance Program at 1-844-409-1141 if my income or health insurance status changes. I agree not to seek reimbursement from any government program or third-party insurer for any free product received under the program.

I verify the information provided is true and correct. If I am the caregiver/representative for the patient, I confirm I am authorized to sign on behalf of the patient.

Patient name (print) _____ Representative name (print, if applicable) _____

Patient/Representative Signature _____ Date ____/____/____

9 PATIENT ASSISTANCE PROGRAM

- 30-day Patient Assistance Program (PAP) prescription for a **new/existing uninsured or underinsured patient**

Note: Requires documentation of denial of coverage and completion of income eligibility; see section 8.

Quantity: 30-day supply (250 mg tablets)

PAP PRESCRIPTION. Please be sure to fill out the below information in its entirety, including number of refills.

Rx start date ____/____/____ [Tibsovo (ivosidenib tablets 250 mg)]

Mandatory: Directions for use: _____

Refills: _____

The recommended dose for TIBSOVO is 500 mg (two 250-mg tablets) orally once daily until disease progression or unacceptable toxicity.

Physician Signature _____ Date _____

(Dispense as written). Signature stamps not acceptable.

Physician Signature _____ Date _____

(Substitution permitted). Signature stamp not acceptable.

INDICATIONS

TIBSOVO is indicated for the treatment of acute myeloid leukemia (AML) with a susceptible isocitrate dehydrogenase-1 (IDH1) mutation as detected by an FDA-approved test in:

- Adult patients with newly-diagnosed AML who are ≥ 75 years old or who have comorbidities that preclude use of intensive induction chemotherapy.
- Adult patients with relapsed or refractory AML.

IMPORTANT SAFETY INFORMATION

WARNING: DIFFERENTIATION SYNDROME

Patients treated with TIBSOVO have experienced symptoms of differentiation syndrome, which can be fatal if not treated. Symptoms may include fever, dyspnea, hypoxia, pulmonary infiltrates, pleural or pericardial effusions, rapid weight gain or peripheral edema, hypotension, and hepatic, renal, or multi-organ dysfunction. If differentiation syndrome is suspected, initiate corticosteroid therapy and hemodynamic monitoring until symptom resolution.

WARNINGS AND PRECAUTIONS

Differentiation Syndrome: See Boxed WARNING. In the clinical trial, 25% (7/28) of patients with newly diagnosed AML and 19% (34/179) of patients with relapsed or refractory AML treated with TIBSOVO experienced differentiation syndrome. Differentiation syndrome is associated with rapid proliferation and differentiation of myeloid cells and may be life-threatening or fatal if not treated. Symptoms of differentiation syndrome in patients treated with TIBSOVO included noninfectious leukocytosis, peripheral edema, pyrexia, dyspnea, pleural effusion, hypotension, hypoxia, pulmonary edema, pneumonitis, pericardial effusion, rash, fluid overload, tumor lysis syndrome, and creatinine increased. Of the 7 patients with newly diagnosed AML who experienced differentiation syndrome, 6 (86%) patients recovered. Of the 34 patients with relapsed or refractory AML who experienced differentiation syndrome, 27 (79%) patients recovered after treatment or after dose interruption of TIBSOVO. Differentiation syndrome occurred as early as 1 day and up to 3 months after TIBSOVO initiation and has been observed with or without concomitant leukocytosis.

If differentiation syndrome is suspected, initiate dexamethasone 10 mg IV every 12 hours (or an equivalent dose of an alternative oral or IV corticosteroid) and hemodynamic monitoring until improvement. If concomitant noninfectious leukocytosis is observed, initiate treatment with hydroxyurea or leukapheresis, as clinically indicated. Taper corticosteroids and hydroxyurea after resolution of symptoms and administer corticosteroids for a minimum of 3 days. Symptoms of differentiation syndrome may recur with premature discontinuation of corticosteroid and/or hydroxyurea treatment. If severe signs and/or symptoms persist for more than 48 hours after initiation of corticosteroids, interrupt TIBSOVO until signs and symptoms are no longer severe.

QTc Interval Prolongation: Patients treated with TIBSOVO can develop QT (QTc) prolongation and ventricular arrhythmias. One patient developed ventricular fibrillation attributed to TIBSOVO. Concomitant use of TIBSOVO with drugs known to prolong the QTc interval (e.g., anti-arrhythmic medicines, fluoroquinolones, triazole anti-fungals, 5-HT₃ receptor antagonists) and CYP3A4 inhibitors may increase the risk of QTc interval prolongation. Conduct monitoring of electrocardiograms (ECGs) and electrolytes. In patients with congenital long QTc syndrome, congestive heart failure, or electrolyte abnormalities, or in those who are taking medications known to prolong the QTc interval, more frequent monitoring may be necessary.

Interrupt TIBSOVO if QTc increases to greater than 480 msec and less than 500 msec. Interrupt and reduce TIBSOVO if QTc increases to greater than 500 msec. Permanently discontinue TIBSOVO in patients who develop QTc interval prolongation with signs or symptoms of life-threatening arrhythmia.

Guillain-Barré Syndrome: Guillain-Barré syndrome occurred in <1% (2/258) of patients treated with TIBSOVO in the clinical study. Monitor patients taking TIBSOVO for onset of new signs or symptoms of motor and/or sensory neuropathy such as unilateral or bilateral weakness, sensory alterations, paresthesias, or difficulty breathing. Permanently discontinue TIBSOVO in patients who are diagnosed with Guillain-Barré syndrome.

ADVERSE REACTIONS

- The most common adverse reactions including laboratory abnormalities ($\geq 20\%$) were hemoglobin decreased (60%), fatigue (43%), arthralgia (39%), calcium decreased (39%), sodium decreased (39%), leukocytosis (38%), diarrhea (37%), magnesium decreased (36%), edema (34%), nausea (33%), dyspnea (32%), uric acid increased (32%), potassium decreased (32%), alkaline phosphatase increased (30%), mucositis (28%), aspartate aminotransferase increased (27%), phosphatase decreased (25%), electrocardiogram QT prolonged (24%), rash (24%), creatinine increased (24%), cough (23%), decreased appetite (22%), myalgia (21%), constipation (20%), and pyrexia (20%).
- **In patients with newly diagnosed AML**, the most frequently reported Grade ≥ 3 adverse reactions ($\geq 5\%$) were fatigue (14%), differentiation syndrome (11%), electrocardiogram QT prolonged (11%), diarrhea (7%), nausea (7%), and leukocytosis (7%). Serious adverse reactions ($\geq 5\%$) were differentiation syndrome (18%), electrocardiogram QT prolonged (7%), and fatigue (7%). There was one case of posterior reversible encephalopathy syndrome (PRES).
- **In patients with relapsed or refractory AML**, the most frequently reported Grade ≥ 3 adverse reactions ($\geq 5\%$) were differentiation syndrome (13%), electrocardiogram QT prolonged (10%), dyspnea (9%), leukocytosis (8%), and tumor lysis syndrome (6%). Serious adverse reactions ($\geq 5\%$) were differentiation syndrome (10%), leukocytosis (10%), and electrocardiogram QT prolonged (7%). There was one case of progressive multifocal leukoencephalopathy (PML).

DRUG INTERACTIONS

Strong or Moderate CYP3A4 Inhibitors: Reduce TIBSOVO dose with strong CYP3A4 inhibitors. Monitor patients for increased risk of QTc interval prolongation.

Strong CYP3A4 Inducers: Avoid concomitant use with TIBSOVO.

Sensitive CYP3A4 Substrates: Avoid concomitant use with TIBSOVO.

QTc Prolonging Drugs: Avoid concomitant use with TIBSOVO. If co-administration is unavoidable, monitor patients for increased risk of QTc interval prolongation.

LACTATION

Because many drugs are excreted in human milk and because of the potential for adverse reactions in breastfed children, advise women not to breastfeed during treatment with TIBSOVO and for at least 1 month after the last dose.

Please see accompanying full Prescribing Information, including Boxed WARNING, and Medication Guide for additional Important Safety Information.

HIGHLIGHTS OF PRESCRIBING INFORMATION

These highlights do not include all the information needed to use TIBSOVO safely and effectively. See full prescribing information for TIBSOVO.

TIBSOVO® (ivosidenib tablets), for oral use
Initial U.S. Approval: 2018

WARNING: DIFFERENTIATION SYNDROME

See full prescribing information for complete boxed warning.

Patients treated with TIBSOVO have experienced symptoms of differentiation syndrome, which can be fatal if not treated. If differentiation syndrome is suspected, initiate corticosteroid therapy and hemodynamic monitoring until symptom resolution (5.1, 6.1).

RECENT MAJOR CHANGES

Indications and Usage (1.1) 05/2019
Dosage and Administration (2.2) 05/2019

INDICATIONS AND USAGE

TIBSOVO is an isocitrate dehydrogenase-1 (IDH1) inhibitor indicated for the treatment of acute myeloid leukemia (AML) with a susceptible IDH1 mutation as detected by an FDA-approved test in:

- Adult patients with newly-diagnosed AML who are ≥ 75 years old or who have comorbidities that preclude use of intensive induction chemotherapy (1.1).
- Adult patients with relapsed or refractory AML (1.2).

DOSAGE AND ADMINISTRATION

500 mg orally once daily with or without food until disease progression or unacceptable toxicity (2.2). Avoid a high-fat meal.

DOSAGE FORMS AND STRENGTHS

Tablets: 250 mg (3).

CONTRAINDICATIONS

None (4).

WARNINGS AND PRECAUTIONS

- QTc Interval Prolongation: Monitor electrocardiograms and electrolytes. If QTc interval prolongation occurs, dose reduce or withhold, then resume dose or permanently discontinue TIBSOVO (2.3, 5.2).

- Guillain-Barré Syndrome: Monitor patients for signs and symptoms of new motor and/or sensory findings. Permanently discontinue TIBSOVO in patients who are diagnosed with Guillain-Barré syndrome (2.3, 5.3).

ADVERSE REACTIONS

The most common adverse reactions ($\geq 20\%$) were fatigue, arthralgia, leukocytosis, diarrhea, edema, nausea, dyspnea, mucositis, electrocardiogram QT prolonged, rash, cough, decreased appetite, myalgia, constipation, and pyrexia (6.1).

The most common laboratory abnormalities ($\geq 20\%$) were hemoglobin decreased, calcium decreased, sodium decreased, magnesium decreased, uric acid increased, potassium decreased, alkaline phosphatase increased, aspartate aminotransferase increased, phosphate decreased, and creatinine increased (6.1).

To report SUSPECTED ADVERSE REACTIONS, contact Agios Pharmaceuticals at 1-833-228-8474 or FDA at 1-800-FDA-1088 or www.fda.gov/medwatch.

DRUG INTERACTIONS

- Strong or Moderate CYP3A4 Inhibitors: Reduce TIBSOVO dose with strong CYP3A4 inhibitors. Monitor patients for increased risk of QTc interval prolongation (2.4, 5.2, 7.1, 12.3).
- Strong CYP3A4 Inducers: Avoid concomitant use with TIBSOVO (7.1, 12.3).
- Sensitive CYP3A4 substrates: Avoid concomitant use with TIBSOVO (7.2, 12.3).
- QTc Prolonging Drugs: Avoid concomitant use with TIBSOVO. If co-administration is unavoidable, monitor patients for increased risk of QTc interval prolongation (5.2, 7.1).

USE IN SPECIFIC POPULATIONS

Lactation: Advise women not to breastfeed (8.2).

See 17 for PATIENT COUNSELING INFORMATION and Medication Guide.

Revised: 05/2019

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FULL PRESCRIBING INFORMATION

WARNING: DIFFERENTIATION SYNDROME

Patients treated with TIBSOVO have experienced symptoms of differentiation syndrome, which can be fatal if not treated. Symptoms may include fever, dyspnea, hypoxia, pulmonary infiltrates, pleural or pericardial effusions, rapid weight gain or peripheral edema, hypotension, and hepatic, renal, or multi-organ dysfunction. If differentiation syndrome is suspected, initiate corticosteroid therapy and hemodynamic monitoring until symptom resolution [see *Warnings and Precautions (5.1)* and *Adverse Reactions (6.1)*].

1 INDICATIONS AND USAGE

1.1 Newly-Diagnosed Acute Myeloid Leukemia

TIBSOVO is indicated for the treatment of newly-diagnosed acute myeloid leukemia (AML) with a susceptible isocitrate dehydrogenase-1 (IDH1) mutation as detected by an FDA-approved test in adult patients who are ≥ 75 years old or who have comorbidities that preclude use of intensive induction chemotherapy [see *Dosage and Administration (2.1)*, *Clinical Pharmacology (12.1)* and *Clinical Studies (14.1)*].

1.2 Relapsed or Refractory Acute Myeloid Leukemia

TIBSOVO is indicated for the treatment of adult patients with relapsed or refractory acute myeloid leukemia (AML) with a susceptible isocitrate dehydrogenase-1 (IDH1) mutation as detected by an FDA-approved test [see *Dosage and Administration (2.1)*, *Clinical Pharmacology (12.1)* and *Clinical Studies (14.2)*].

2 DOSAGE AND ADMINISTRATION

2.1 Patient Selection

Select patients for the treatment of AML with TIBSOVO based on the presence of IDH1 mutations in the blood or bone marrow [see *Clinical Studies (14.1)*]. Patients without IDH1 mutations at diagnosis should be retested at relapse because a mutation in IDH1 may emerge during treatment and at relapse. Information on FDA-approved tests for the detection of IDH1 mutations in AML is available at <http://www.fda.gov/CompanionDiagnostics>.

2.2 Recommended Dosage

The recommended dose of TIBSOVO is 500 mg taken orally once daily until disease progression or unacceptable toxicity. For patients without disease progression or unacceptable toxicity, treat for a minimum of 6 months to allow time for clinical response.

Administer TIBSOVO with or without food. Do not administer TIBSOVO with a high-fat meal because of an increase in ivosidenib concentration [see *Warnings and Precautions (5.2)* and *Clinical Pharmacology (12.3)*]. Do not split or crush TIBSOVO tablets. Administer TIBSOVO tablets orally about the same time each day. If a dose of TIBSOVO is vomited, do not administer a replacement dose; wait until the next scheduled dose is due. If a dose of TIBSOVO is missed or not taken at the usual time, administer the dose as soon as possible and at least 12 hours prior

to the next scheduled dose. Return to the normal schedule the following day. Do not administer 2 doses within 12 hours.

Patients with the Comorbidities of Severe Renal or Severe Hepatic Impairment

Treatment with TIBSOVO has not been studied in patients with pre-existing severe renal or hepatic impairment. For patients with pre-existing severe renal or hepatic impairment, consider the risks and potential benefits before initiating treatment with TIBSOVO [see *Use in Specific Populations* (8.6, 8.7)].

2.3 Monitoring and Dose Modifications for Toxicities

Assess blood counts and blood chemistries prior to the initiation of TIBSOVO, at least once weekly for the first month, once every other week for the second month, and once monthly for the duration of therapy. Monitor blood creatine phosphokinase weekly for the first month of therapy. Monitor electrocardiograms (ECGs) at least once weekly for the first 3 weeks of therapy and then at least once monthly for the duration of therapy. Manage any abnormalities promptly [see *Adverse Reactions* (6.1)].

Interrupt dosing or reduce dose for toxicities. See Table 1 for dose modification guidelines.

Table 1. Recommended Dose Modifications for TIBSOVO

Adverse Reactions	Recommended Action
<ul style="list-style-type: none"> • Differentiation syndrome 	<ul style="list-style-type: none"> • If differentiation syndrome is suspected, administer systemic corticosteroids and initiate hemodynamic monitoring until symptom resolution and for a minimum of 3 days [see <i>Warnings and Precautions</i> (5.1)]. • Interrupt TIBSOVO if severe signs and/or symptoms persist for more than 48 hours after initiation of systemic corticosteroids [see <i>Warnings and Precautions</i> (5.1)]. • Resume TIBSOVO when signs and symptoms improve to Grade 2* or lower.
<ul style="list-style-type: none"> • Noninfectious leukocytosis (white blood cell [WBC] count greater than $25 \times 10^9/L$ or an absolute increase in total WBC of greater than $15 \times 10^9/L$ from baseline) 	<ul style="list-style-type: none"> • Initiate treatment with hydroxyurea, as per standard institutional practices, and leukapheresis if clinically indicated. • Taper hydroxyurea only after leukocytosis improves or resolves. • Interrupt TIBSOVO if leukocytosis is not improved with hydroxyurea, and then resume TIBSOVO at 500 mg daily when leukocytosis has resolved.
<ul style="list-style-type: none"> • QTc interval greater than 480 msec to 500 msec 	<ul style="list-style-type: none"> • Monitor and supplement electrolyte levels as clinically indicated [see <i>Warnings and Precautions</i> (5.2)]. • Review and adjust concomitant medications with known QTc interval-prolonging effects [see <i>Drug</i>

	<p><i>Interactions (7.1)].</i></p> <ul style="list-style-type: none"> • Interrupt TIBSOVO. • Restart TIBSOVO at 500 mg once daily after the QTc interval returns to less than or equal to 480 msec. • Monitor ECGs at least weekly for 2 weeks following resolution of QTc prolongation.
<ul style="list-style-type: none"> • QTc interval greater than 500 msec 	<ul style="list-style-type: none"> • Monitor and supplement electrolyte levels as clinically indicated [see <i>Warnings and Precautions (5.2)].</i> • Review and adjust concomitant medications with known QTc interval-prolonging effects [see <i>Drug Interactions (7.1)].</i> • Interrupt TIBSOVO. • Resume TIBSOVO at a reduced dose of 250 mg once daily when QTc interval returns to within 30 msec of baseline or less than or equal to 480 msec. • Monitor ECGs at least weekly for 2 weeks following resolution of QTc prolongation. • Consider re-escalating the dose of TIBSOVO to 500 mg daily if an alternative etiology for QTc prolongation can be identified.
<ul style="list-style-type: none"> • QTc interval prolongation with signs/symptoms of life-threatening arrhythmia 	<ul style="list-style-type: none"> • Discontinue TIBSOVO permanently [see <i>Warnings and Precautions (5.2)].</i>
<ul style="list-style-type: none"> • Guillain-Barré syndrome 	<ul style="list-style-type: none"> • Discontinue TIBSOVO permanently [see <i>Warnings and Precautions (5.3)].</i>
<ul style="list-style-type: none"> • Other Grade 3* or higher toxicity considered related to treatment 	<ul style="list-style-type: none"> • Interrupt TIBSOVO until toxicity resolves to Grade 2* or lower. • Resume TIBSOVO at 250 mg once daily; may increase to 500 mg once daily if toxicities resolve to Grade 1* or lower. • If Grade 3* or higher toxicity recurs, discontinue TIBSOVO.

*Grade 1 is mild, Grade 2 is moderate, Grade 3 is severe, Grade 4 is life-threatening.

2.4 Dose Modification for Use with Strong CYP3A4 Inhibitors

If a strong CYP3A4 inhibitor must be coadministered, reduce the TIBSOVO dose to 250 mg once daily. If the strong inhibitor is discontinued, increase the TIBSOVO dose (after at least 5 half-lives of the strong CYP3A4 inhibitor) to the recommended dose of 500 mg once daily.

3 DOSAGE FORMS AND STRENGTHS

Tablets: 250 mg as a blue oval-shaped film-coated tablet debossed “IVO” on one side and “250” on the other side.

4 CONTRAINDICATIONS

None.

5 WARNINGS AND PRECAUTIONS

5.1 Differentiation Syndrome

In the clinical trial, 25% (7/28) of patients with newly diagnosed AML and 19% (34/179) of patients with relapsed or refractory AML treated with TIBSOVO experienced differentiation syndrome. Differentiation syndrome is associated with rapid proliferation and differentiation of myeloid cells and may be life-threatening or fatal if not treated. Symptoms of differentiation syndrome in patients treated with TIBSOVO included noninfectious leukocytosis, peripheral edema, pyrexia, dyspnea, pleural effusion, hypotension, hypoxia, pulmonary edema, pneumonitis, pericardial effusion, rash, fluid overload, tumor lysis syndrome and creatinine increased. Of the 7 patients with newly diagnosed AML who experienced differentiation syndrome, 6 (86%) patients recovered. Of the 34 patients with relapsed or refractory AML who experienced differentiation syndrome, 27 (79%) patients recovered after treatment or after dose interruption of TIBSOVO. Differentiation syndrome occurred as early as 1 day and up to 3 months after TIBSOVO initiation and has been observed with or without concomitant leukocytosis.

If differentiation syndrome is suspected, initiate dexamethasone 10 mg IV every 12 hours (or an equivalent dose of an alternative oral or IV corticosteroid) and hemodynamic monitoring until improvement [see *Dosage and Administration (2.3)*]. If concomitant noninfectious leukocytosis is observed, initiate treatment with hydroxyurea or leukapheresis, as clinically indicated. Taper corticosteroids and hydroxyurea after resolution of symptoms and administer corticosteroids for a minimum of 3 days. Symptoms of differentiation syndrome may recur with premature discontinuation of corticosteroid and/or hydroxyurea treatment. If severe signs and/or symptoms persist for more than 48 hours after initiation of corticosteroids, interrupt TIBSOVO until signs and symptoms are no longer severe [see *Dosage and Administration (2.3)*].

5.2 QTc Interval Prolongation

Patients treated with TIBSOVO can develop QT (QTc) prolongation [see *Clinical Pharmacology (12.2)*] and ventricular arrhythmias. Of the 258 patients with hematological malignancies treated with TIBSOVO in the clinical trial, 9% were found to have a QTc interval greater than 500 msec and 14% of patients had an increase from baseline QTc greater than 60 msec. One patient developed ventricular fibrillation attributed to TIBSOVO. The clinical trial excluded patients with baseline QTc of ≥ 450 msec (unless the QTc ≥ 450 msec was due to a pre-existing bundle branch block) or with a history of long QT syndrome or uncontrolled or significant cardiovascular disease.

Concomitant use of TIBSOVO with drugs known to prolong the QTc interval (e.g., anti-arrhythmic medicines, fluoroquinolones, triazole anti-fungals, 5-HT₃ receptor antagonists) and CYP3A4 inhibitors may increase the risk of QTc interval prolongation [see *Drug Interactions (7.1)*, *Clinical Pharmacology (12.2)*]. Conduct monitoring of electrocardiograms (ECGs) and electrolytes [see *Dosage and Administration (2.3)*].

In patients with congenital long QTc syndrome, congestive heart failure, electrolyte abnormalities, or those who are taking medications known to prolong the QTc interval, more frequent monitoring may be necessary.

Interrupt TIBSOVO if QTc increases to greater than 480 msec and less than 500 msec. Interrupt and reduce TIBSOVO if QTc increases to greater than 500 msec. Permanently discontinue TIBSOVO in patients who develop QTc interval prolongation with signs or symptoms of life-threatening arrhythmia [see *Dosage and Administration (2.3)*].

5.3 Guillain-Barré Syndrome

Guillain-Barré syndrome occurred in < 1% (2/258) of patients treated with TIBSOVO in the clinical study. Monitor patients taking TIBSOVO for onset of new signs or symptoms of motor and/or sensory neuropathy such as unilateral or bilateral weakness, sensory alterations, paresthesias, or difficulty breathing. Permanently discontinue TIBSOVO in patients who are diagnosed with Guillain-Barré syndrome [see *Dosage and Administration (2.3)*].

6 ADVERSE REACTIONS

The following clinically significant adverse reactions are described elsewhere in the labeling:

- Differentiation Syndrome [see *Warnings and Precautions (5.1)*]
- QTc Interval Prolongation [see *Warnings and Precautions (5.2)*]
- Guillain-Barré Syndrome [see *Warnings and Precautions (5.3)*]

6.1 Clinical Trials Experience

Because clinical trials are conducted under widely varying conditions, adverse reaction rates observed in the clinical trials of a drug cannot be directly compared to rates in the clinical trials of another drug and may not reflect the rates observed in practice.

The safety of TIBSOVO as a single agent at 500 mg daily was evaluated in 213 patients with AML in Study AG120-C-001 [see *Clinical Studies (14.1 and 14.2)*]. The median age of TIBSOVO treated patients was 68 (range 18-87) with 68% ≥ 65 years, 51% male, 66% White, 6% Black or African American, 3% Asian, 0.5% Native Hawaiian or other Pacific Islander, 0.5% American Indian or Alaska Native, and 24% other/not provided. Among the 213 patients who received TIBSOVO, 37% were exposed for 6 months or longer and 14% were exposed for 12 months or longer. The most common adverse reactions including laboratory abnormalities in ≥ 20% of 213 patients who received TIBSOVO were hemoglobin decreased, fatigue, arthralgia, calcium decreased, sodium decreased, leukocytosis, diarrhea, magnesium decreased, edema, nausea, dyspnea, uric acid increased, potassium decreased, alkaline phosphatase increased, mucositis, aspartate aminotransferase increased, phosphatase decreased, electrocardiogram QT prolonged, rash, creatinine increased, cough, decreased appetite, myalgia, constipation, and pyrexia.

Newly-Diagnosed AML

The safety profile of single-agent TIBSOVO was studied in 28 adults with newly-diagnosed AML treated with 500 mg daily [see *Clinical Studies (14.1)*]. The median duration of exposure

to TIBSOVO was 4.3 months (range 0.3 to 40.9 months). Ten patients (36%) were exposed to TIBSOVO for at least 6 months and 6 patients (21%) were exposed for at least 1 year.

Common ($\geq 5\%$) serious adverse reactions included differentiation syndrome (18%), electrocardiogram QT prolonged (7%), and fatigue (7%). There was one case of posterior reversible encephalopathy syndrome (PRES).

Common ($\geq 10\%$) adverse reactions leading to dose interruption included electrocardiogram QT prolonged (14%) and differentiation syndrome (11%). Two (7%) patients required a dose reduction due to electrocardiogram QT prolonged. One patient each required permanent discontinuation due to diarrhea and PRES.

The most common adverse reactions reported in the trial are shown in Table 2.

Table 2: Adverse Reactions Reported in $\geq 10\%$ (Any Grade) or $\geq 5\%$ (Grade ≥ 3) of Patients with Newly-Diagnosed AML

Body System Adverse Reaction	TIBSOVO (500 mg daily) N=28	
	All Grades n (%)	Grade ≥ 3 n (%)
Blood System and Lymphatic System Disorders		
Leukocytosis ¹	10 (36)	2 (7)
Differentiation Syndrome ²	7 (25)	3 (11)
Gastrointestinal Disorders		
Diarrhea	17 (61)	2 (7)
Nausea	10 (36)	2 (7)
Abdominal pain ³	8 (29)	1 (4)
Constipation	6 (21)	1 (4)
Vomiting	6 (21)	1 (4)
Mucositis ⁴	6 (21)	0
Dyspepsia	3 (11)	0
General Disorders and Administration Site Conditions		
Fatigue ⁵	14 (50)	4 (14)
Edema ⁶	12 (43)	0
Investigations		
Electrocardiogram QT prolonged	6 (21)	3 (11)
Weight decreased	3 (11)	0
Metabolism and Nutrition Disorders		
Decreased appetite	11 (39)	1 (4)
Musculoskeletal and Connective Tissue Disorders		
Arthralgia ⁷	9 (32)	1 (4)
Myalgia ⁸	7 (25)	1 (4)
Nervous System Disorders		
Dizziness	6 (21)	0
Neuropathy ⁹	4 (14)	0
Headache	3 (11)	0
Respiratory, Thoracic and Mediastinal Disorders		

	TIBSOVO (500 mg daily) N=28	
Dyspnea ¹⁰	8 (29)	1 (4)
Cough ¹¹	4 (14)	0
Skin and Subcutaneous Tissue Disorders		
Pruritis	4 (14)	1 (4)
Rash ¹²	4 (14)	1 (4)

¹ Grouped term includes leukocytosis, hyperleukocytosis, and increased white blood cell count.

² Differentiation syndrome can be associated with other commonly reported events such as peripheral edema, leukocytosis, pyrexia, dyspnea, pleural effusion, hypotension, hypoxia, pulmonary edema, pneumonia, pericardial effusion, rash, fluid overload, tumor lysis syndrome, and creatinine increased.

³ Grouped term includes abdominal pain, upper abdominal pain, abdominal discomfort, and abdominal tenderness.

⁴ Grouped term includes arthralgia, back pain, musculoskeletal stiffness, neck pain, and pain in extremity.

⁵ Grouped term includes asthenia and fatigue.

⁶ Grouped term includes edema, face edema, fluid overload, fluid retention, hypervolemia, peripheral edema, and swelling face.

⁷ Grouped term includes arthralgia, back pain, musculoskeletal stiffness, neck pain, and pain in extremity.

⁸ Grouped term includes myalgia, muscular weakness, musculoskeletal pain, musculoskeletal chest pain, musculoskeletal discomfort, and myalgia intercostal.

⁹ Grouped term includes burning sensation, lumbosacral plexopathy, neuropathy peripheral, paresthesia, and peripheral motor neuropathy.

¹⁰ Grouped term includes dyspnea, dyspnea exertional, hypoxia, and respiratory failure.

¹¹ Grouped term includes cough, productive cough, and upper airway cough syndrome.

¹² Grouped term includes dermatitis acneiform, dermatitis, rash, rash maculo-papular, urticaria, rash erythematous, rash macular, rash pruritic, rash generalized, rash papular, skin exfoliation, and skin ulcer.

Changes in selected post-baseline laboratory values that were observed in patients with newly diagnosed AML are shown in Table 3.

Table 3: Most Common ($\geq 10\%$) or $\geq 5\%$ (Grade ≥ 3) New or Worsening Laboratory Abnormalities Reported in Patients with Newly-Diagnosed AML¹

	TIBSOVO (500 mg daily) N=28	
Parameter	All Grades n (%)	Grade ≥ 3 n (%)
Hemoglobin decreased	15 (54)	12 (43)
Alkaline phosphatase increased	13 (46)	0
Potassium decreased	12 (43)	3 (11)
Sodium decreased	11 (39)	1 (4)
Uric acid increased	8 (29)	1 (4)
Aspartate aminotransferase increased	8 (29)	1 (4)
Creatinine increased	8 (29)	0
Magnesium decreased	7 (25)	0
Calcium decreased	7 (25)	1 (4)
Phosphate decreased	6 (21)	2 (7)
Alanine aminotransferase increased	4 (14)	1 (4)

¹Laboratory abnormality is defined as new or worsened by at least one grade from baseline, or if baseline is unknown.

Relapsed or Refractory AML

The safety profile of single-agent TIBSOVO was studied in 179 adults with relapsed or refractory AML treated with 500 mg daily [see *Clinical Studies (14.2)*].

The median duration of exposure to TIBSOVO was 3.9 months (range 0.1 to 39.5 months). Sixty-five patients (36%) were exposed to TIBSOVO for at least 6 months and 16 patients (9%) were exposed for at least 1 year.

Serious adverse reactions ($\geq 5\%$) were differentiation syndrome (10%), leukocytosis (10%), and electrocardiogram QT prolonged (7%). There was one case of progressive multifocal leukoencephalopathy (PML).

The most common adverse reactions leading to dose interruption were electrocardiogram QT prolonged (7%), differentiation syndrome (3%), leukocytosis (3%) and dyspnea (3%). Five out of 179 patients (3%) required a dose reduction due to an adverse reaction. Adverse reactions leading to a dose reduction included electrocardiogram QT prolonged (1%), diarrhea (1%), nausea (1%), decreased hemoglobin (1%), and increased transaminases (1%). Adverse reactions leading to permanent discontinuation included Guillain-Barré syndrome (1%), rash (1%), stomatitis (1%), and creatinine increased (1%).

The most common adverse reactions reported in the trial are shown in Table 4.

Table 4: Adverse Reactions Reported in $\geq 10\%$ (Any Grade) or $\geq 5\%$ (Grade ≥ 3) of Patients with Relapsed or Refractory AML

	TIBSOVO (500 mg daily) N=179	
Body System Adverse Reaction	All Grades n (%)	Grade ≥ 3 n (%)
Blood System and Lymphatic System Disorders		
Leukocytosis ¹	68 (38)	15 (8)
Differentiation Syndrome ²	34 (19)	23 (13)
Gastrointestinal Disorders		
Diarrhea	60 (34)	4 (2)
Nausea	56 (31)	1 (1)
Mucositis ³	51 (28)	6 (3)
Constipation	35 (20)	1 (1)
Vomiting ⁴	32 (18)	2 (1)
Abdominal pain ⁵	29 (16)	2 (1)
General Disorders and Administration Site Conditions		
Fatigue ⁶	69 (39)	6 (3)
Edema ⁷	57 (32)	2 (1)
Pyrexia	41 (23)	2 (1)
Chest pain ⁸	29 (16)	5 (3)
Investigations		
Electrocardiogram QT prolonged	46 (26)	18 (10)
Metabolism and Nutrition Disorders		
Decreased appetite	33 (18)	3 (2)
Tumor lysis syndrome	14 (8)	11 (6)
Musculoskeletal and Connective Tissue Disorders		
Arthralgia ⁹	64 (36)	8 (4)
Myalgia ¹⁰	33 (18)	1 (1)
Nervous System Disorders		

	TIBSOVO (500 mg daily) N=179	
Headache	28 (16)	0
Neuropathy ¹¹	21 (12)	2 (1)
Respiratory, Thoracic and Mediastinal Disorders		
Cough ¹²	40 (22)	1 (<1)
Dyspnea ¹³	59 (33)	16 (9)
Pleural effusion	23 (13)	5 (3)
Skin and Subcutaneous Tissue Disorders		
Rash ¹⁴	46 (26)	4 (2)
Vascular Disorders		
Hypotension ¹⁵	22 (12)	7 (4)

¹ Grouped term includes leukocytosis, hyperleukocytosis, and increased white blood cell count.

² Differentiation syndrome can be associated with other commonly reported events such as peripheral edema, leukocytosis, pyrexia, dyspnea, pleural effusion, hypotension, hypoxia, pulmonary edema, pneumonia, pericardial effusion, rash, fluid overload, tumor lysis syndrome, and creatinine increased.

³ Grouped term includes aphthous ulcer, esophageal pain, esophagitis, gingival pain, gingivitis, mouth ulceration, mucosal inflammation, oral pain, oropharyngeal pain, proctalgia, and stomatitis.

⁴ Grouped term includes vomiting and retching.

⁵ Grouped term includes abdominal pain, upper abdominal pain, abdominal discomfort, and abdominal tenderness.

⁶ Grouped term includes asthenia and fatigue.

⁷ Grouped term includes peripheral edema, edema, fluid overload, fluid retention, and face edema.

⁸ Grouped term includes angina pectoris, chest pain, chest discomfort, and non-cardiac chest pain.

⁹ Grouped term includes arthralgia, back pain, musculoskeletal stiffness, neck pain, and pain in extremity.

¹⁰ Grouped term includes myalgia, muscular weakness, musculoskeletal pain, musculoskeletal chest pain, musculoskeletal discomfort, and myalgia intercostal.

¹¹ Grouped term includes ataxia, burning sensation, gait disturbance, Guillain-Barré syndrome, neuropathy peripheral, paresthesia, peripheral sensory neuropathy, peripheral motor neuropathy, and sensory disturbance.

¹² Grouped term includes cough, productive cough, and upper airway cough syndrome.

¹³ Grouped term includes dyspnea, respiratory failure, hypoxia, and dyspnea exertional.

¹⁴ Grouped term includes dermatitis acneiform, dermatitis, rash, rash maculo-papular, urticaria, rash erythematous, rash macular, rash pruritic, rash generalized, rash papular, skin exfoliation, and skin ulcer.

¹⁵ Grouped term includes hypotension and orthostatic hypotension.

Changes in selected post-baseline laboratory values that were observed in patients with relapsed or refractory AML are shown in Table 5.

Table 5: Most Common ($\geq 10\%$) or $\geq 5\%$ (Grade ≥ 3) New or Worsening Laboratory Abnormalities Reported in Patients with Relapsed or Refractory AML¹

Parameter	TIBSOVO (500 mg daily) N=179	
	All Grades n (%)	Grade ≥ 3 n (%)
Hemoglobin decreased	108 (60)	83 (46)
Sodium decreased	69 (39)	8 (4)
Magnesium decreased	68 (38)	0
Uric acid increased	57 (32)	11 (6)
Potassium decreased	55 (31)	11 (6)
Alkaline phosphatase increased	49 (27)	1 (1)
Aspartate aminotransferase increased	49 (27)	1 (1)
Phosphate decreased	45 (25)	15 (8)
Creatinine increased	42 (23)	2 (1)
Alanine aminotransferase increased	26 (15)	2 (1)
Bilirubin increased	28 (16)	1 (1)

¹Laboratory abnormality is defined as new or worsened by at least one grade from baseline, or if baseline is unknown.

7 DRUG INTERACTIONS

7.1 Effect of Other Drugs on Ivosidenib

Strong or Moderate CYP3A4 Inhibitors	
Clinical Impact	<ul style="list-style-type: none">• Co-administration of TIBSOVO with strong or moderate CYP3A4 inhibitors increased ivosidenib plasma concentrations [see <i>Clinical Pharmacology (12.3)</i>].• Increased ivosidenib plasma concentrations may increase the risk of QTc interval prolongation [see <i>Warnings and Precautions (5.2)</i>].
Prevention or Management	<ul style="list-style-type: none">• Consider alternative therapies that are not strong or moderate CYP3A4 inhibitors during treatment with TIBSOVO.• If co-administration of a strong CYP3A4 inhibitor is unavoidable, reduce TIBSOVO to 250 mg once daily [see <i>Dosage and Administration (2.3)</i>].• Monitor patients for increased risk of QTc interval prolongation [see <i>Warnings and Precautions (5.2)</i>].
Strong CYP3A4 Inducers	
Clinical Impact	<ul style="list-style-type: none">• Co-administration of TIBSOVO with strong CYP3A4 inducers decreased ivosidenib plasma concentrations [see <i>Clinical Pharmacology (12.3)</i>].
Prevention or Management	<ul style="list-style-type: none">• Avoid co-administration of strong CYP3A4 inducers with TIBSOVO.
QTc Prolonging Drugs	
Clinical Impact	<ul style="list-style-type: none">• Co-administration of TIBSOVO with QTc prolonging drugs may increase the risk of QTc interval prolongation [see <i>Warnings and Precautions (5.2)</i>].
Prevention or Management	<ul style="list-style-type: none">• Avoid co-administration of QTc prolonging drugs with TIBSOVO or replace with alternative therapies.• If co-administration of a QTc prolonging drug is unavoidable, monitor patients for increased risk of QTc interval prolongation [see <i>Warnings and Precautions (5.2)</i>].

7.2 Effect of Ivosidenib on Other Drugs

Ivosidenib induces CYP3A4 and may induce CYP2C9. Co-administration will decrease concentrations of drugs that are sensitive CYP3A4 substrates and may decrease concentrations of drugs that are sensitive CYP2C9 substrates [see *Clinical Pharmacology (12.3)*]. Use alternative therapies that are not sensitive substrates of CYP3A4 and CYP2C9 during TIBSOVO treatment. Do not administer TIBSOVO with itraconazole or ketoconazole (CYP3A4 substrates) due to expected loss of antifungal efficacy. Co-administration of TIBSOVO may decrease the concentrations of hormonal contraceptives, consider alternative methods of contraception in patients receiving TIBSOVO. If co-administration of TIBSOVO with sensitive CYP3A4 substrates or CYP2C9 substrates is unavoidable, monitor patients for loss of therapeutic effect of these drugs.

8 USE IN SPECIFIC POPULATIONS

8.1 Pregnancy

Risk Summary

Based on animal embryo-fetal toxicity studies, TIBSOVO may cause fetal harm when administered to a pregnant woman. There are no available data on TIBSOVO use in pregnant women to inform a drug-associated risk of major birth defects and miscarriage. In animal embryo-fetal toxicity studies, oral administration of ivosidenib to pregnant rats and rabbits during organogenesis was associated with embryo-fetal mortality and alterations to growth starting at 2 times the steady state clinical exposure based on the AUC at the recommended human dose (*see Data*). If this drug is used during pregnancy, or if the patient becomes pregnant while taking this drug, advise the patient of the potential risk to a fetus.

The background risk of major birth defects and miscarriage for the indicated population is unknown. Adverse outcomes in pregnancy occur regardless of the health of the mother or the use of medications. In the U.S. general population, the estimated background risk of major birth defects and miscarriage in clinically recognized pregnancies is 2%-4% and 15%-20%, respectively.

Data

Animal Data

Ivosidenib administered to pregnant rats at a dose of 500 mg/kg/day during organogenesis (gestation days 6-17) was associated with adverse embryo-fetal effects including lower fetal weights, and skeletal variations. These effects occurred in rats at approximately 2 times the human exposure at the recommended dose of 500 mg daily.

In pregnant rabbits treated during organogenesis (gestation days 7-20), ivosidenib was maternally toxic at doses of 180 mg/kg/day (exposure approximately 3.9 times the human exposure at the recommended dose of 500 mg daily) and caused spontaneous abortions as well as decreased fetal weights, skeletal variations, and visceral variations.

8.2 Lactation

Risk Summary

There are no data on the presence of ivosidenib or its metabolites in human milk, the effects on the breastfed child, or the effects on milk production. Because many drugs are excreted in human milk and because of the potential for adverse reactions in breastfed children, advise women not to breastfeed during treatment with TIBSOVO and for at least 1 month after the last dose.

8.4 Pediatric Use

The safety and effectiveness of TIBSOVO in pediatric patients have not been established.

8.5 Geriatric Use

Thirty-three (97%) of the 34 patients with newly diagnosed AML in the clinical study were 65 years of age or older, and 19 patients (56%) were 75 years or older. One hundred and twelve (63%) of the 179 patients with relapsed or refractory AML in the clinical study were 65 years of age or older and 40 patients (22%) were 75 years or older. No overall differences in effectiveness

or safety were observed between patients with relapsed or refractory AML who were 65 years and older and younger patients.

8.6 Renal Impairment

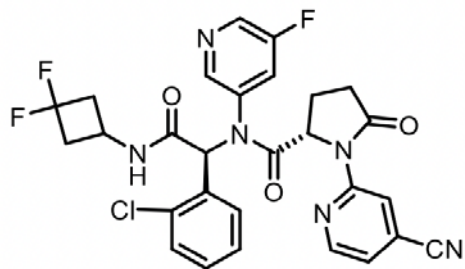
No modification of the starting dose is recommended for patients with mild or moderate renal impairment (eGFR \geq 30 mL/min/1.73m², MDRD). The pharmacokinetics and safety of ivosidenib in patients with severe renal impairment (eGFR < 30 mL/min/1.73m², MDRD) or renal impairment requiring dialysis are unknown [see *Clinical Pharmacology (12.3)*]. For patients with pre-existing severe renal impairment or who are requiring dialysis, consider the risks and potential benefits before initiating treatment with TIBSOVO.

8.7 Hepatic Impairment

No modification of the starting dose is recommended for patients with mild or moderate (Child-Pugh A or B) hepatic impairment [see *Clinical Pharmacology (12.3)*]. The pharmacokinetics and safety of ivosidenib in patients with severe hepatic impairment (Child-Pugh C) are unknown. For patients with pre-existing severe hepatic impairment, consider the risks and potential benefits before initiating treatment with TIBSOVO.

11 DESCRIPTION

TIBSOVO (ivosidenib) is an inhibitor of isocitrate dehydrogenase 1 (IDH1) enzyme. The chemical name is (2S)-N-[(1S)-1-(2-chlorophenyl)-2-[(3,3-difluorocyclobutyl)-amino]-2-oxoethyl]-1-(4-cyanopyridin-2-yl)-N-(5-fluoropyridin-3-yl)-5-oxopyrrolidine-2-carboxamide. The chemical structure is:



The molecular formula is C₂₈H₂₂ClF₃N₆O₃ and the molecular weight is 583.0 g/mol. Ivosidenib is practically insoluble in aqueous solutions between pH 1.2 and 7.4.

TIBSOVO (ivosidenib) is available as a film-coated 250 mg tablet for oral administration. Each tablet contains the following inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, hypromellose acetate succinate, magnesium stearate, microcrystalline cellulose, and sodium lauryl sulfate. The tablet coating includes FD&C blue #2, hypromellose, lactose monohydrate, titanium dioxide, and triacetin.

12 CLINICAL PHARMACOLOGY

12.1 Mechanism of Action

Ivosidenib is a small molecule inhibitor that targets the mutant isocitrate dehydrogenase 1 (IDH1) enzyme. Susceptible IDH1 mutations are defined as those leading to increased levels of 2-hydroxyglutarate (2-HG) in the leukemia cells and where efficacy is predicted by 1) clinically meaningful remissions with the recommended dose of ivosidenib and/or 2) inhibition of mutant IDH1 enzymatic activity at concentrations of ivosidenib sustainable at the recommended dosage according to validated methods. The most common of such mutations are R132H and R132C substitutions.

Ivosidenib was shown to inhibit selected IDH1 R132 mutants at much lower concentrations than wild-type IDH1 in vitro. Inhibition of the mutant IDH1 enzyme by ivosidenib led to decreased 2-HG levels and induced myeloid differentiation in vitro and in vivo in mouse xenograft models of IDH1-mutated AML. In blood samples from patients with AML with mutated IDH1, ivosidenib decreased 2-HG levels ex-vivo, reduced blast counts, and increased percentages of mature myeloid cells.

12.2 Pharmacodynamics

Multiple doses of ivosidenib 500 mg daily were observed to decrease plasma 2-HG concentrations in patients with hematological malignancies to levels similar to those observed at baseline in healthy subjects. In bone marrow, 2-HG concentrations were reduced by >90%.

Cardiac Electrophysiology

A concentration-dependent QTc interval prolongation of approximately 17.2 msec (90% CI: 14.7, 19.7) was observed at the steady-state C_{max} following a 500 mg daily dose based on an analysis of 171 patients with advanced hematologic malignancies and an IDH1 mutation, including 26 patients with newly diagnosed AML and 136 patients with relapsed or refractory AML, who received TIBSOVO 500 mg daily [see [Warnings and Precautions \(5.1\)](#)]. Co-administration with moderate or strong CYP3A inhibitors is expected to further increase QTc interval prolongation from baseline.

12.3 Pharmacokinetics

The following ivosidenib pharmacokinetic parameters were observed following administration of ivosidenib 500 mg as a single dose or daily dose (for steady-state), unless otherwise specified. The steady-state pharmacokinetics of ivosidenib 500 mg were comparable between patients with newly diagnosed AML and patients with relapsed or refractory AML.

The mean peak plasma concentration (C_{max}) is 4,503 ng/mL [% coefficient of variation (%CV: 38)] after a single dose, and 6,551 ng/mL (%CV: 44) at steady-state. The steady-state area under the concentration time curve (AUC) is 117,348 ng·hr/mL (%CV: 50).

The AUC and C_{max} of ivosidenib increase in a less than dose-proportional manner from 200 mg to 1,200 mg daily (0.4 to 2.4 times the approved recommended dosage). Accumulation ratios were approximately 1.9 for AUC and 1.5 for C_{max} over one month. Steady-state plasma levels are reached within 14 days.

Absorption

The median time to C_{max} is approximately 3 hours.

Effect of Food

Following administration of a single dose in healthy subjects, a high-fat meal (approximately 900 to 1,000 calories, 500 to 600 fat calories, 250 carbohydrate calories and 150 protein calories) increased ivosidenib C_{max} by 98% (90% CI: 79%, 119%) and AUC_{inf} by approximately 25%.

Distribution

The mean apparent volume of distribution of ivosidenib at steady-state is 234 L (%CV: 47). Protein binding of ivosidenib ranges from 92 to 96% in vitro.

Elimination

Ivosidenib has a terminal half-life of 93 hours (%CV: 67) and an apparent clearance (CL/F) of 4.3 L/hour (%CV: 50).

Metabolism

Ivosidenib is the predominant component (>92%) of total radioactivity in plasma. Ivosidenib is primarily metabolized by CYP3A4 with minor contributions by N-dealkylation and hydrolytic pathways.

Excretion

After a single oral administration of radiolabeled ivosidenib to healthy subjects, 77% of ivosidenib was eliminated in the feces (67% as unchanged) and 17% in the urine (10% as unchanged).

Specific Populations

No clinically meaningful effects on the pharmacokinetics of ivosidenib were observed based on age (18 years to 89 years), sex, race (White, Asian, Black or African American), body weight (38 to 150 kg), ECOG performance status, or mild or moderate renal impairment (eGFR \geq 30 mL/min/1.73m², MDRD). The pharmacokinetics of ivosidenib in patients with severe renal impairment (eGFR <30 mL/min/1.73m², MDRD) or renal impairment requiring dialysis is unknown.

Patients with Hepatic Impairment

Following a single dose of TIBSOVO 500 mg, the geometric mean ratio (90% confidence interval) of ivosidenib systemic exposure (AUC_{0-INF}) in subjects with mild hepatic impairment (Child-Pugh A) was 0.85 (0.62, 1.15) and moderate hepatic impairment (Child-Pugh B) was 0.71 (0.48, 1.05) as compared to that in subjects with normal hepatic function. The pharmacokinetics of ivosidenib in patients with severe hepatic impairment (Child-Pugh C) is unknown.

Drug Interaction Studies

Clinical Studies and Model-Based Approaches

Effect of Strong or Moderate CYP3A4 Inhibitors on Ivosidenib

Itraconazole was used as a strong CYP3A4 index inhibitor to evaluate the effect of CYP3A4 inhibition on the pharmacokinetics of ivosidenib single-dose in a drug-drug interaction study in

healthy subjects. Co-administration of 250 mg ivosidenib with itraconazole (200 mg itraconazole once daily for 18 days) increased ivosidenib single-dose AUC to 269% of control (90% CI: 245%, 295%) with no change in C_{max} . In regards to multiple-dosing, note that because ivosidenib induces the metabolism of CYP3A4 substrates following ivosidenib multiple dosing, itraconazole (a CYP3A4 substrate) is not recommended to be used concomitantly with TIBSOVO in patients (see [Effect of Ivosidenib on CYP3A4 Substrates](#)).

Based on physiologically-based pharmacokinetic modeling, co-administration of 500 mg ivosidenib with the moderate CYP3A4 inhibitor fluconazole (dosed to steady-state) is predicted to increase ivosidenib single-dose AUC to 173% of control with no change in C_{max} . In regards to multiple-dosing, co-administration with ivosidenib and fluconazole is predicted to increase ivosidenib steady-state C_{max} to 152% of control and AUC to 190% of control [*see Drug Interactions (7.1)*].

Effect of Strong CYP3A4 Inducers on Ivosidenib

Co-administration of ivosidenib with a strong CYP3A4 inducer (600 mg rifampin once daily for 15 days) is predicted to decrease ivosidenib steady-state AUC by 33% [*see Drug Interactions (7.1)*].

Effect of Ivosidenib on CYP3A4 Substrates

Ivosidenib induces CYP3A4, including its own metabolism. Co-administration of ivosidenib with CYP3A4 substrates such as itraconazole is expected to decrease itraconazole steady-state AUC to a clinically relevant extent [*see Drug Interactions (7.2)*].

Effect of Gastric Acid Reducing Agents on Ivosidenib

Gastric acid reducing agents (e.g., proton pump inhibitors, H₂-receptor antagonists, antacids) do not affect ivosidenib concentrations.

In vitro Studies

Metabolic Pathways

Ivosidenib may induce CYP2B6, CYP2C8, and CYP2C9 and therefore may affect the pharmacokinetics of sensitive substrates of these enzymes [*see Drug Interactions (7.2)*].

Drug Transporter Systems

Ivosidenib is a substrate for P-glycoprotein (P-gp). Ivosidenib is not a substrate for BCRP or hepatic transporters OATP1B1 and OATP1B3.

Ivosidenib does not inhibit BCRP, OATP1B1, OATP1B3, OAT1, and OCT2 at clinically relevant concentrations. Ivosidenib is an inhibitor of OAT3 and P-gp.

13 NONCLINICAL TOXICOLOGY

13.1 Carcinogenesis, Mutagenesis, Impairment of Fertility

Carcinogenicity studies have not been conducted with ivosidenib. Ivosidenib was not mutagenic in an in vitro bacterial reverse mutation (Ames) assay. Ivosidenib was not clastogenic in an in vitro human lymphocyte micronucleus assay, or in an in vivo rat bone marrow micronucleus assay. Fertility studies in animals have not been conducted with ivosidenib. In repeat-dose

toxicity studies up to 90 days in duration with twice daily oral administration of ivosidenib in rats, uterine atrophy was reported in females at non-tolerated dose levels.

14 CLINICAL STUDIES

14.1 Newly-Diagnosed AML

The efficacy of TIBSOVO was evaluated in an open-label, single-arm, multicenter clinical trial (Study AG120-C-001, NCT02074839) that included 28 adult patients with newly-diagnosed AML with an IDH1 mutation. IDH1 mutations were identified by a local or central diagnostic test and confirmed retrospectively using the Abbott RealTime™ IDH1 Assay. The cohort included patients who were age 75 years or older or who had comorbidities that precluded the use of intensive induction chemotherapy based on at least one of the following criteria: baseline Eastern Cooperative Oncology Group (ECOG) performance status of ≥ 2 , severe cardiac or pulmonary disease, hepatic impairment with bilirubin > 1.5 times the upper limit of normal, or creatinine clearance < 45 mL/min. TIBSOVO was given orally at a starting dose of 500 mg daily until disease progression, development of unacceptable toxicity, or undergoing hematopoietic stem cell transplantation. Two (7%) of the 28 patients went on to stem cell transplantation following TIBSOVO treatment.

The baseline demographic and disease characteristics are shown in Table 6.

Table 6: Baseline Demographic and Disease Characteristics in Patients with Newly-Diagnosed AML (Study AG120-C-001)

Demographic and Disease Characteristics	TIBSOVO (500 mg daily) N=28
Demographics	
Age (Years) Median (Min, Max)	77 (64, 87)
Age Categories, n (%)	
<65 years	1 (4)
≥ 65 years to <75 years	8 (29)
≥ 75 years	19 (68)
Sex, n (%)	
Male	15 (54)
Female	13 (46)
Race, n (%)	
White	24 (86)
Black or African American	2 (7)
Asian	0
Native Hawaiian/Other Pacific Islander	0
Other/Not provided	2 (7)
Disease Characteristics	
ECOG PS, n (%)	
0	6 (21)
1	16 (57)
2	5 (18)
3	1 (4)
IDH1 Mutation, n (%)¹	

R132C	24 (86)
R132G	1 (4)
R132H	2 (7)
R132L	1 (4)
R132S	0
ELN Risk Category, n (%)	
Favorable	0
Intermediate	9 (32)
Adverse	19 (68)
Transfusion Dependent at Baseline², n (%)	17 (61)
Type of AML, n (%)	
De novo AML	6 (21)
AML-MRC ³	19 (68)
Therapy-related AML	3 (11)
Prior Hypomethylating Agent for Antecedent Hematologic Disorder	13 (46)

ECOG PS: Eastern Cooperative Oncology Group Performance Status. ELN: European Leukemia Net

¹ Using confirmatory Abbott RealTime IDH1 assay testing results.

² Patients were defined as transfusion dependent at baseline if they received any transfusion occurring within 56 days prior to the first dose of TIBSOVO.

³ AML with myelodysplasia-related changes.

Efficacy was established on the basis of the rate of complete remission (CR) or complete remission with partial hematologic recovery (CRh), the duration of CR+CRh, and the rate of conversion from transfusion dependence to transfusion independence. The efficacy results are shown in Table 7. The median follow-up was 8.1 months (range, 0.6 to 40.9 months) and median treatment duration was 4.3 months (range, 0.3 to 40.9 months).

Table 7: Efficacy Results in Patients with Newly-Diagnosed AML (Study AG120-C-001)

Endpoint	TIBSOVO (500 mg daily) N=28
CR¹ n (%)	8 (28.6)
95% CI	(13.2, 48.7)
Median DOCR² (months)	NE ³
95% CI	(4.2, NE)
CRh⁴ n (%)	4 (14.3)
95% CI	(4.0, 32.7)
Observed DOCRh² (months)	2.8, 4.6, 8.3, 15.7+
CR+CRh n (%)	12 (42.9)
95% CI	(24.5, 62.8)
Median DOCR+CRh² (months)	NE ³
95% CI	(4.2, NE)

CI: confidence interval, NE: not estimable

¹ CR (complete remission) was defined as <5% blasts in the bone marrow, no evidence of disease, and full recovery of peripheral blood counts (platelets >100,000/microliter and absolute neutrophil counts [ANC] >1,000/microliter).

² DOCR (duration of CR), DOCRh (duration of CRh), and DOCR+CRh (duration of CR+CRh) was defined as time since first response of CR, CRh or CR/CRh, respectively, to relapse or death, whichever is earlier. + indicates censored observation.

³ The median durations of CR and CR+CRh were not estimable, with 5 patients (41.7%) who achieved CR or CRh remaining on TIBSOVO treatment (treatment duration range: 20.3 to 40.9 months).

⁴CRh (complete remission with partial hematological recovery) was defined as <5% blasts in the bone marrow, no evidence of disease, and partial recovery of peripheral blood counts (platelets >50,000/microliter and ANC >500/microliter).

For patients who achieved a CR or CRh, the median time to CR or CRh was 2.8 months (range, 1.9 to 12.9 months). Of the 12 patients who achieved a best response of CR or CRh, 11 (92%) achieved a first response of CR or CRh within 6 months of initiating TIBSOVO.

Among the 17 patients who were dependent on red blood cell (RBC) and/or platelet transfusions at baseline, 7 (41.2%) became independent of RBC and platelet transfusions during any 56-day post-baseline period. Of the 11 patients who were independent of both RBC and platelet transfusions at baseline, 6 (54.5%) remained transfusion independent during any 56-day post-baseline period.

14.2 Relapsed or Refractory AML

The efficacy of TIBSOVO was evaluated in an open-label, single-arm, multicenter clinical trial (Study AG120-C-001, NCT02074839) of 174 adult patients with relapsed or refractory AML with an IDH1 mutation. IDH1 mutations were identified by a local or central diagnostic test and confirmed retrospectively using the Abbott RealTime™ IDH1 Assay. TIBSOVO was given orally at a starting dose of 500 mg daily until disease progression, development of unacceptable toxicity, or undergoing hematopoietic stem cell transplantation. Twenty-one (12%) of the 174 patients went on to stem cell transplantation following TIBSOVO treatment.

The baseline demographic and disease characteristics are shown in Table 8.

Table 8: Baseline Demographic and Disease Characteristics in Patients with Relapsed or Refractory AML (Study AG120-C-001)

Demographic and Disease Characteristics	TIBSOVO (500 mg daily) N=174
Demographics	
Age (Years) Median (Min, Max)	67 (18, 87)
Age Categories, n (%)	
<65 years	63 (36)
≥65 years to <75 years	71 (41)
≥75 years	40 (23)
Sex, n (%)	
Male	88 (51)
Female	86 (49)
Race, n (%)	
White	108 (62)
Black or African American	10 (6)
Asian	6 (3)
Native Hawaiian/Other Pacific Islander	1 (1)
Other/Not provided	49 (28)
Disease Characteristics	
ECOG PS, n (%)	
0	36 (21)
1	97 (56)
2	39 (22)

3	2 (1)
IDH1 Mutation, n (%)¹	
R132C	102 (59)
R132H	43 (25)
R132G	12 (7)
R132S	10 (6)
R132L	7 (4)
Cytogenetic Risk Status, n (%)	
Intermediate	104 (60)
Poor	47 (27)
Missing/Unknown	23 (13)
Relapse Type	
Primary refractory	64 (37)
Refractory relapse	45 (26)
Untreated relapse	65 (37)
Relapse Number	
0	64 (37)
1	83 (48)
2	21 (12)
≥3	6 (3)
Prior Stem Cell Transplantation for AML, n (%)	40 (23)
Transfusion Dependent at Baseline², n (%)	110 (63)
Median Number of Prior Therapies (Min, Max)	2 (1, 6)
Type of AML, n (%)	
De novo AML	116 (67)
Secondary AML	58 (33)

ECOG PS: Eastern Cooperative Oncology Group Performance Status.

¹ Using confirmatory Abbott RealTime IDH1 assay testing results.

² Patients were defined as transfusion dependent at baseline if they received any transfusion occurring within 56 days prior to the first dose of TIBSOVO.

Efficacy was established on the basis of the rate of complete remission (CR) plus complete remission with partial hematologic recovery (CRh), the duration of CR+CRh, and the rate of conversion from transfusion dependence to transfusion independence. The efficacy results are shown in Table 9. The median follow-up was 8.3 months (range, 0.2 to 39.5 months) and median treatment duration was 4.1 months (range, 0.1 to 39.5 months).

Table 9: Efficacy Results in Patients with Relapsed or Refractory AML (Study AG120-C-001)

Endpoint	TIBSOVO (500 mg daily) N=174
CR¹ n (%)	43 (24.7)
95% CI	(18.5, 31.8)
Median DOCR² (months)	10.1
95% CI	(6.5, 22.2)
CRh³ n (%)	14 (8.0)
95% CI	(4.5, 13.1)
Median DOCRh² (months)	3.6
95% CI	(1, 5.5)
CR+CRh⁴ n (%)	57 (32.8)

95% CI	(25.8, 40.3)
Median DOCR+CRh² (months)	8.2
95% CI	(5.6, 12)

CI: confidence interval

¹ CR (complete remission) was defined as <5% blasts in the bone marrow, no evidence of disease, and full recovery of peripheral blood counts (platelets >100,000/microliter and absolute neutrophil counts [ANC] >1,000/microliter).

² DOCR (duration of CR), DOCRh (duration of CRh), and DOCR+CRh (duration of CR+CRh) was defined as time since first response of CR, CRh or CR/CRh, respectively, to relapse or death, whichever is earlier.

³ CRh (complete remission with partial hematological recovery) was defined as <5% blasts in the bone marrow, no evidence of disease, and partial recovery of peripheral blood counts (platelets >50,000/microliter and ANC >500/microliter).

⁴ CR+CRh rate appeared to be consistent across all baseline demographic and baseline disease characteristics with the exception of number of prior regimens.

For patients who achieved a CR or CRh, the median time to CR or CRh was 2 months (range, 0.9 to 5.6 months). Of the 57 patients who achieved a best response of CR or CRh, all achieved a first response of CR or CRh within 6 months of initiating TIBSOVO.

Among the 110 patients who were dependent on red blood cell (RBC) and/or platelet transfusions at baseline, 41 (37.3%) became independent of RBC and platelet transfusions during any 56-day post-baseline period. Of the 64 patients who were independent of both RBC and platelet transfusions at baseline, 38 (59.4%) remained transfusion independent during any 56-day post-baseline period.

16 HOW SUPPLIED/STORAGE AND HANDLING

16.1 How Supplied

250 mg tablet: Blue oval-shaped film-coated tablet debossed “IVO” on one side and “250” on the other side.

- 60-count bottles of 250 mg tablets with a desiccant canister (NDC 71334-100-01)

16.2 Storage

Store at 20°C to 25°C (68°F to 77°F); excursions permitted between 15°C to 30°C (59°F to 86°F) [see USP Controlled Room Temperature].

17 PATIENT COUNSELING INFORMATION

Advise the patient to read the FDA-approved patient labeling ([Medication Guide](#)).

Differentiation Syndrome

Advise patients of the risks of developing differentiation syndrome as early as 1 day after start of therapy and during the first 3 months on treatment. Ask patients to immediately report any symptoms suggestive of differentiation syndrome, such as fever, cough or difficulty breathing, rash, decreased urinary output, low blood pressure, rapid weight gain, or swelling of their arms or legs, to their healthcare provider for further evaluation [see [Boxed Warning and Warnings and Precautions \(5.1\)](#)].

QTc Interval Prolongation

Inform patients of symptoms that may be indicative of significant QTc interval prolongation including dizziness, lightheadedness, and fainting. Advise patients to report these symptoms and the use of all medications to their healthcare provider [*see Warnings and Precautions (5.2)*].

Drug Interactions

Advise patients to inform their healthcare providers of all concomitant medications, including over-the-counter medications, vitamins, and herbal products [*see Drug Interactions (7)*].

Guillain-Barré Syndrome

Inform patients of symptoms that may be indicative of Guillain-Barré syndrome, including new signs or symptoms of motor and/or sensory neuropathy, such as weakness or tingling sensation in the legs, arms, or upper body, numbness and pain on one side or both sides of the body, changes to any sensory function, or burning or prickling sensation, or difficulty breathing. Advise patients to report these symptoms to their healthcare provider [*see Warnings and Precautions (5.3)*].

Tumor Lysis Syndrome

Advise patients on the risks of developing tumor lysis syndrome. Advise patients on the importance of maintaining high fluid intake, and the need for frequent monitoring of blood chemistry values [*see Adverse Reactions (6.1)*].

Gastrointestinal Adverse Reactions

Advise patients on the risks of experiencing gastrointestinal reactions such as diarrhea, nausea, mucositis, constipation, vomiting, decreased appetite and abdominal pain. Ask patients to report these events to their healthcare provider, and advise patients how to manage them [*see Adverse Reactions (6.1)*].

Lactation

Advise women not to breastfeed during treatment with TIBSOVO and for at least 1 month after the final dose [*see Use in Specific Populations (8.2)*].

Dosing and Storage Instructions

- Advise patients to swallow tablets whole and to not split, crush, or chew TIBSOVO tablets.
- Advise patients to avoid taking TIBSOVO with a high-fat meal.
- Instruct patients that if a dose of TIBSOVO is vomited, not to take an additional dose, and wait until the next scheduled dose is due. If a dose of TIBSOVO is missed or not taken at the usual time, instruct patients to take the dose as soon as possible unless the next dose is due within 12 hours. Patients can return to the normal schedule the following day.
- Store TIBSOVO at room temperature from 20°C to 25°C (68°F to 77°F).

Manufactured for and marketed by:

Agios Pharmaceuticals, Inc.
Cambridge, MA 02139

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AG-PI-002

MEDICATION GUIDE
TIBSOVO® (tib-SOH-voh)
(ivosidenib) tablets

What is the most important information I should know about TIBSOVO?

TIBSOVO may cause serious side effects, including:

- **Differentiation Syndrome.** Differentiation syndrome is a condition that affects your blood cells and may be life-threatening or lead to death if not treated. Differentiation syndrome has happened as early as 1 day and up to 3 months after starting TIBSOVO. Call your healthcare provider or go to the nearest hospital emergency room right away if you develop any of the following symptoms of differentiation syndrome during treatment with TIBSOVO:
 - fever
 - cough
 - trouble breathing
 - rash
 - decreased urination
 - dizziness or lightheadedness
 - rapid weight gain
 - swelling of your arms or legs

If you develop signs and symptoms of differentiation syndrome, your healthcare provider may treat you with a corticosteroid medicine or a medicine called hydroxyurea and may monitor you in the hospital.

See **“What are the possible side effects of TIBSOVO?”** for more information about side effects.

What is TIBSOVO?

TIBSOVO is a prescription medicine used to treat acute myeloid leukemia (AML) with an isocitrate dehydrogenase-1 (IDH1) mutation in:

- adults with newly diagnosed AML who are 75 years or older or who have health problems that prevent the use of certain chemotherapy treatments.
- adults with AML when the disease has come back or has not improved after previous treatment(s).

Your healthcare provider will perform a test to make sure that TIBSOVO is right for you.

It is not known if TIBSOVO is safe and effective in children.

Before taking TIBSOVO, tell your healthcare provider about all of your medical conditions, including if you:

- have any heart problems, including a condition called long QT syndrome.
- have problems with abnormal electrolytes, such as sodium, potassium, calcium or magnesium levels.
- have nervous system problems.
- have problems with your kidneys or are on dialysis.
- have any liver disorders, including cirrhosis.
- are pregnant or plan to become pregnant. TIBSOVO may cause harm to your unborn baby. You should avoid becoming pregnant during treatment with TIBSOVO. Tell your healthcare provider right away if you become pregnant or think you might be pregnant during treatment with TIBSOVO.
- are breastfeeding or plan to breastfeed. It is not known if TIBSOVO passes into your breast milk. Do not breastfeed during your treatment with TIBSOVO and for at least 1 month after your last dose of TIBSOVO.

Tell your healthcare provider about all the medicines you take, including prescription and over-the-counter medicines, vitamins, and herbal supplements.

Especially tell your healthcare provider if you take hormonal contraceptives. TIBSOVO may affect how hormonal contraceptives work and may cause them to not work as well.

How should I take TIBSOVO?

- Take TIBSOVO exactly as your healthcare provider tells you to.
- Do not change your dose or stop taking TIBSOVO without talking to your healthcare provider.
- Take TIBSOVO 1 time a day about the same time each day.
- Swallow TIBSOVO tablets whole. Do not split, crush, or chew the tablet.
- TIBSOVO can be taken with or without food.
- Do not take TIBSOVO with a high-fat meal. An example of a high-fat meal includes 2 eggs fried in butter, 2 strips of bacon, 2 slices of white bread with butter, 1 croissant with 1 slice of cheese, and 8 ounces of whole milk (approximately 1,000 calories and 58 grams of fat).
- If you vomit after taking a dose of TIBSOVO, do not take an additional dose. Take your next dose at your usual time.
- If you miss a dose of TIBSOVO or did not take it at the usual time, take your dose as soon as possible and at least 12 hours before your next dose. Return to your normal schedule the following day. **Do not** take 2 doses of TIBSOVO within 12 hours.

What are the possible side effects of TIBSOVO?

TIBSOVO may cause serious side effects, including:

- See “[What is the most important information I should know about TIBSOVO?](#)”
- **Changes in the electrical activity of your heart called QTc prolongation. QTc prolongation can cause irregular heartbeats that can be life-threatening.** Your healthcare provider will check the electrical activity of your heart with a test called an electrocardiogram (ECG) during treatment with TIBSOVO. Tell your healthcare provider right away if you feel dizzy, lightheaded, or faint.
- **Guillain-Barré syndrome** has happened in people treated with TIBSOVO. Your healthcare provider will monitor you for nervous system problems and will permanently stop your treatment with TIBSOVO if you develop Guillain-Barré syndrome. Tell your healthcare provider right away if you develop any signs or symptoms of Guillain-Barré syndrome, including:
 - weakness or tingling feeling in your legs, arms, or upper body
 - numbness and pain on one side or both sides of your body
 - any changes in your ability to see, touch, hear, or taste
 - burning or prickling sensation
 - difficulty breathing

The most common side effects of TIBSOVO include:

- fatigue
- joint pain
- high white blood cell count
- diarrhea
- swelling of arms or legs
- nausea
- shortness of breath
- pain or sores in your mouth or throat
- irregular heart rhythm or heartbeat (QTc prolongation)
- rash
- cough
- decreased appetite
- muscle pain
- constipation
- fever
- hemoglobin decreased (anemia)
- decreased levels of electrolytes in the blood
- changes in liver or kidney function tests

Your healthcare provider will do blood tests before you start and during treatment with TIBSOVO. Your healthcare provider may decrease, temporarily hold, or permanently stop your treatment with TIBSOVO if you develop side effects.

TIBSOVO may cause fertility problems in females and males, which may affect your ability to have children. Talk to your healthcare provider if you have concerns about fertility.

These are not all the possible side effects of TIBSOVO.

Call your doctor for medical advice about side effects. You may report side effects to FDA at 1-800-FDA-1088.

How should I store TIBSOVO?

- Store TIBSOVO at room temperature between 68°F to 77°F (20°C to 25°C).

Keep TIBSOVO and all medicines out of the reach of children.

General information about the safe and effective use of TIBSOVO

Medicines are sometimes prescribed for purposes other than those listed in a Medication Guide. Do not take TIBSOVO for conditions for which it was not prescribed. Do not give TIBSOVO to other people, even if they have the same symptoms you have. It may harm them. You can ask your pharmacist or healthcare provider for information about TIBSOVO that is written for healthcare professionals.

What are the ingredients in TIBSOVO?

Active ingredient: ivosidenib

Inactive ingredients: colloidal silicon dioxide, croscarmellose sodium, hypromellose acetate succinate, magnesium stearate, microcrystalline cellulose, and sodium lauryl sulfate. The tablet coating includes FD&C blue #2, hypromellose, lactose monohydrate, titanium dioxide, and triacetin.

Manufactured for and marketed by: Agios Pharmaceuticals, Inc. Cambridge, MA 02139

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For more information go to www.TIBSOVO.com or call 1-833-228-8474.

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