

COMPOSITION Zvtix Tablet: Ea

Zytix Tablet: Each tablet contains Abiraterone Acetate INN 250 mg.

DESCRIPTION

Abiraterone Acetate is a CYP17 inhibitor.

CLINICAL PHARMACOLOGY

Mode of Action

Abiraterone Acetate is converted in vivo to abiraterone, an androgen biosynthesis inhibitor, that inhibits 17α-hydrox/lase/C17,20-lyase (CYP17). This enzyme is expressed in testicular, adrenal and prostatic tumor tissues and is required for androgen biosynthesis.

CPI7 catalyzes two sequential reactions: 11 the conversion of pregnenolone and progesterom to their 17x-bytomy derivatives by 17x-bytomystax activity and 21 the subsequent formation of dehydropelandrosterone (DHEA) and androstenedione, respectively, by C17, 20 bysea extivity. DHEA and androstenedione are andropers and are presures or festosterone, inhibition of CYP17 by abinaterone can also result in increased mineralocorticoid production by the adensal. Androgen sensitive prostatic carcinoma responds to treatment that decrease androgen levels. Androgen deprivation therapies, such as treatment with GnRH apoints or orchiectomy, and the contraction of t

Pharmacokinetics

Following administration of Abiraterone Acetate, the pharmacokinetics of abiraterone and Abiraterone Acetate have been studied in healthy subjects and in patients with metastatic castration-resistant prostate cancer (CRPC). In clinical studies, Abiraterone Acetate plasma concentrations were below detectable levels (< 0.2 ng/mL) in > 99% of the analyzed samoles.

Absorption

Following oral administration of Abiraterone Acetate to patients with metastatic CRPC, the median time to reach maximum plasma abiraterone concentrations is 2 hours. Abiraterone accumulation is observed at steady-state, with a 2-fold higher exposure (steady-state AUC) compared to a single 1000 mg dose of Abiraterone Acetate.

At the dose of 1000 mg daily in patients with metastatic CRPC, steady-state values (mean \pm SD) of C_{mix} were 226 ± 178 ng/mL and of AUC were 1173 ± 690 ng.hr/mL. No major deviation from dose proportionality was observed in the dose range of 250 mg to 1000 mg.

Systemic exposure of abitateone is increased when Abitateone Acetate is administered with food. Abitateone Cass and AUCs—every approximately 7. and 5-fold higher, respectively, when Abitateone Acetate was administered with a low-fat meal (7% fat, 300 calories) and approximately 17. and 16-fold higher, respectively, when Abitateone Acetate was administered with a high-fat (57% fat, 82 calories) meal. Given the normal variation in the content and composition of meal states administered composition of meals, taking Abitateone Acetate was been trained highly variable exposures. Therefore, no food should be consumed for at least two hours before the door of Abitateone is taken and for least one hour affect the door of Abitateone is taken.

Distribution and Protein Binding

Abiraterone is highly bound (>99%) to the human plasma proteins, albumin and alpha-1 acid glycoprotein. The apparent steady-state volume of distribution (mean ± SD) is 19,669 ± 13,358 L. In vitro studies show that at clinically relevant concentrations, Abiraterone Acetate and abiraterone are not substrates of P- glycoprotein (P-gp) and that Abiraterone Acetate is an inhibitor of P-on. Not studies have been conducted with other transporter orioteins.

Metabolism

Following and administration of 14c-Abinateone Acetate as tablets. Abinateone Acetate is hydroglard to abinateone (active metabolite). The convenior is likely through extense activity (the extenses have not been identified) and is not CPP mediated. The two main circulating metabolites of abinateone in human plansars are abinateone sulphate (inactive) and N-aode Abinateone sulphate (inactive), which account for about 45% of exposure each. CTP34 and N-aode Abinateone sulphate (inactive), which account for about 45% of exposure each. CTP34 plansars SUITA31 is involved in the formation of Abinateones Sulphate in SUITA31 is involved in the formation of Abinateones Sulphate and

Excretion

In patients with metastatic CRPC, the mean terminal half-life of abiraterone in plasma (mean ± 50) is 12 ± 5 hours. Following oral administration of 14C-Abiraterone Acetate, approximately 88% of the radioactive dose is recovered in feces and approximately 5% in urine. The major compounds present in feces are unchanged Abiraterone Acetate and abiraterone (approximately 5% and 22% of the administered dose respectively).

Indications

Zytix (abiraterone acetate) is a CYP17 inhibitor indicated in combination with prednisone for the treatment of patients with metastatic castration-resistant prostate cancer.

 -In patients with mCRPC who progressed on ADT and had not received prior cytotoxic chemotherapy.

-In patients with mCRPC who progressed on ADT and had received docetaxel chemotherapy.

DOSAGE AND ADMINISTRATION

The recommended dose of Abiraterone is 1,000 mg administered orally once daily in combination with predisione 5 mg administered orally writee daily. Abiraterone must be taken on an empty stomach. No food should be consumed for at least two hours before the dose of Abiraterone is taken and for at least one hour after the dose of Abiraterone is taken. The tablets should be swallowed whole with water. For patients with baseline moderate hepatic impairment (Child-Pugh Class B), reduce the Abiraterone starting dose to 250 mg once daily. Abiraterone for patients who develop hepatotoxicity during treatment, hold Abiraterone until recovery. Retreatment may be initiated at a reduced dose. Abiraterone should be discontinued if patients develop severe hepatotoxicity.

DOSE MODIFICATION GUIDELINES

Hepatic Impairment

In patients with baseline moderate hepatic impairment (Child-Puph Class B), reduce the recommended does of Abriaterone to 250 mg once daily). A once daily does of 250 mg in patients with moderate hepatic impairment is predicted to result in an area under the mocentration curve (MUC) similar to the AUC seen in patients with normal hepatic function receiving 1,000 mg once daily. However, there are no clinical data at the dose of 250 mg once daily. However, there are no clinical data at the dose of 250 mg once daily in patients with moderate hepatic impairment moderate hepatic impairment moderate hepatic impairment moderate hepatic every week for the first month, every two weeks for the following two months of reatment and monthly thereafter, if elevations in ALT and/or AST greater than SX upper limit of normal (UNA) or to labilitation with baseline needestee hepatic or total billioushi greater than SX upper limit of normal (UNA). Abiraterone in patients with baseline seeme hepatic impairment (Child-Puph, Class C), as Abiraterone in patients with baseline seeme hepatic impairment (Child-Puph, Class C), as Abiraterone in patients with baseline seeme hepatic impairment (Child-Puph, Class C), as

Hepatotoxicity

For patients who develop heatotoxicity during treatment with Abirateone (ALT and/or AST greater than SX UNIA or total billuthing negrets than AST UNIA), interrupt treatment with Abirateone Treatment may be restarted at a reduced dose of 750 mg once daily following return of liver function tests to the patient baseline or to AST and ALT less than or equal to 2.5X ULN and total billiuthin less than or equal to 1.5X ULN for patients who resume treatment, 2.5X ULN and total billiuthin less than or equal to 1.5X ULN for patients who resume treatment, and monthly therestings and billuthin at a minimum of every two veets for river enomits and monthly therestings.

If hepatotoxicity recurs at the dose of 750 mg once daily, retreatment may be restarted at a reduced dose of 500 mg once daily following return of liver function tests to the patient's baseline or to AST and ALT less than or equal to 2.5X ULN and total bilirubin less than or equal to 1.5X ULN.

If hepatotoxicity recurs at the reduced dose of 500 mg once daily, discontinue treatment with Abiraterone. The safety of Abiraterone retreatment of patients who develop AST or ALT greater than or equal to 20X ULN and/or billitybin greater than or equal to 10X ULN is unknown.

CONTRAINDICATIONS

Abiraterone is contraindicated in women who are or may become pregnant.

PRECAUT

Mineralocorticoid excess: Use Abiraterone with caution in patients with a history of cardiovascular disease. The safety of Abiraterone in patients with UFE r 50% or NYHA Class III or IV heart failure is not established. Control hypertension and correct hypokalemia before treatment. Monitor blood pressure, serum potassium and symptoms of fluid retention at least monthly.

Adrenocortical insufficiency: Monitor for symptoms and signs of adrenocortical insufficiency. Increased dosage of corticosteroids may be indicated before, during and after stressful situations.

Hepatotoxicity: Increases in liver enzymes have lead to drug interruption, dose modification and/or discontinuation. Monitor liver function and modify, interrupt or discontinue Abiraterone dosion as recommended.

Food Effect: Abiraterone must be taken on an empty stomach. Exposure (area under the curve) of abiraterone increases up to 10 fold when Abiraterone Acetate is taken with meals

OVERDOSE

There have been no reported cases of an overdose with Abiraterone. Based on the known effects of the drug, symptoms of an overdose on this drug may include: hot flushes, muscle and ioint discomfort fluid retention, heart furthm problems, heart failure, liver problems.

If the overdose was recent, a healthcare provider may administer activated charcoal or 'pump the stomach' to help reduce the amount of the medication that is absorbed into the bloodstream. Treatment will also involve supportive care, which consists of treating the symptoms that occur as a result of the overdose. Supportive treatment for a Abiraterone overdose may include close monitoring of the heart and liver.

ADVERSE EFFECTS

The most common adverse reactions (£5%) are joint swelling or discomfort, hypokalemia, edema, muscle discomfort, hot flush, diarrhea, urinary tract infection, cough, hypertension, arrhythmia, urinary frequency, nocturia, dyspepsia and upper respiratory tract infection.

DRUG INTERACTIONS

Abiraterone is an inhibitor of the hepatic drug-metabolizing enzyme CYP2D6. Avoid coadministration of Abiraterone with CYP2D6 substrates that have a narrow therapeutic index. If an alternative treatment cannot be used, exercise caution and consider a dose reduction of the concomitant CYP2D6 substrate.

PHARMACEUTICAL INFORMATION

Storage condition: Store in cool and dry place, away from light. Keep out of the reach of children.

Presentation & Packaging

Zytix Tablet: Each commercial box contains 1 x 6's tablets of Abiraterone Acetate in Alu-Alu blister pack.

