

Atazanavir

Catalog No: tcsc0945



Available Sizes

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

198904-31-3

Formula:

$C_{38}H_{52}N_6O_7$

Pathway:

Metabolic Enzyme/Protease;Anti-infection

Target:

HIV Protease;HIV

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

BMS-232632

Observed Molecular Weight:

704.86

Product Description

Atazanavir(BMS-232632) is an highly potent HIV-1 protease inhibitor.

IC50 value:

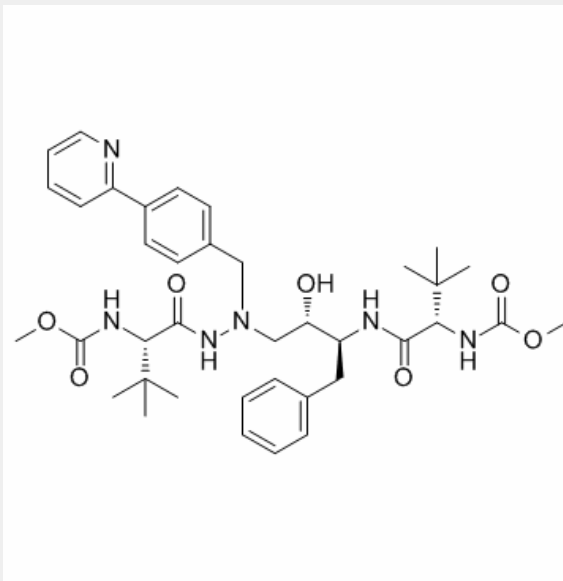
Target: HIV-1 protease inhibitor

Atazanavir sulfate is a sulfate salt form of atazanavir that is an highly potent HIV-1 protease inhibitor. It has a pharmacokinetic profile that supports once-daily dosing and has demonstrated a unique resistance profile and superior virologic potency compared with other antiretrovirals in vitro. In subjects with HIV, atazanavir (400 mg once daily) produced rapid and sustained improvements in viral load and CD4 counts in both antiretroviral-naive as well as previously treated patients when used in combination with dual nucleoside reverse transcriptase inhibitor (NRTI) treatment [1].

After intravenous (iv), oral (po) and intraportal (ip) administration of ATV at a dosage of 7 mg/kg, AUCs in HL rats were 12.41, 5.24 and 8.89 microg/mLh, respectively, and were significantly higher than those in control rats (4.09, 1.70 and 3.38 microg/mLh). Despite the decrease of distribution volume (Vd(ss)), the terminal half-life (t(1/2)) in HL tended to be shorter than in control, and hepatic distribution of ATV in HL rats was 4.8-fold increases. These results suggested that the uptake of ATV into liver might counteract the decrease of Vd(ss). On the other hand, there was no significant difference in bioavailability, and the lymphatic transport to AUC showed no statistical change. In conclusion, although the protein binding rate and AUC were significantly increased, the pharmacokinetics of ATV might be tolerated in HL [2].

Clinical indications: HIV-1 infection

Toxicity: torsades de pointes



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