

Lopinavir

Catalog No: tcsc2077



Available Sizes

Size: 50mg

Size: 100mg

Size: 250mg



Specifications

CAS No:
192725-17-0

Formula:
 $C_{37}H_{48}N_4O_5$

Pathway:
Metabolic Enzyme/Protease;Anti-infection

Target:
HIV Protease;HIV

Purity / Grade:
>98%

Solubility:
DMSO : 100 mg/mL (159.03 mM; Need ultrasonic)

Alternative Names:
ABT-378

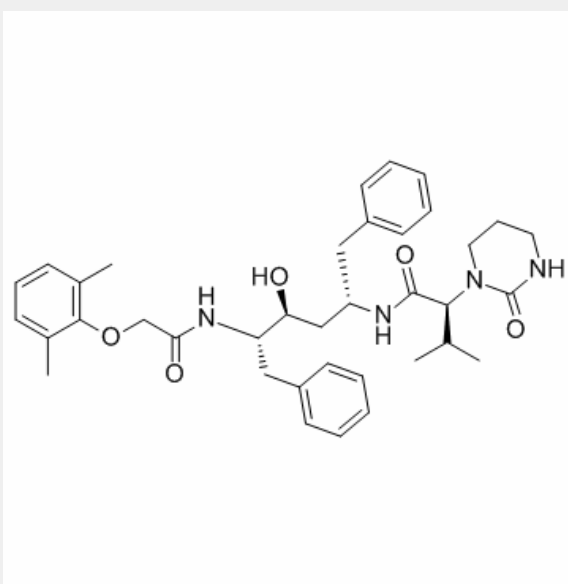
Observed Molecular Weight:
628.8

Product Description

Lopinavir is a potent HIV protease inhibitor with K_i of 1.3 pM.

Target: HIV protease

Lopinavir is a potent inhibitor of Rh123 efflux in Caco-2 monolayers with IC_{50} of 1.7 mM. Lopinavir exposure (72 hours) in LS 180V cells reduces the content of intracellular Rh123. Lopinavir induces P-glycoprotein immunoreactive protein and messenger RNA levels in LS 180V cells. Lopinavir inhibits subtype C clone C6 with IC_{50} of 9.4 nM. Lopinavir inhibits CYP3A with IC_{50} of 7.3 mM in human liver microsomes, while produces negligible or weak inhibition of human CYP1A2, 2B6, 2C9, 2C19 and 2D6. Lopinavir (10 mg/kg, orally) results in C_{max} of 0.8 $\mu\text{g/mL}$ and oral bioavailability of 25% in rats.



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