Web: www.taiclone.com
Tel: +886-2-2735-9682
Email: order@taiclone.com

Boceprevir

Catalog No: tcsc0361

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Size: 200mg

Specifications

CAS No:
394730-60-0

Formula:
$C_{27}H_{45}N_5O_5$

Pathway:
Metabolic Enzyme/Protease;Anti-infection

Target:
HCV Protease;HCV

Purity / Grade:
>98%

Solubility:
DMSO : ≥ 10 mg/mL (19.24 mM)

Alternative Names:
EBP 520;SCH 503034

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Observed Molecular Weight:
519.68

Product Description

Boceprevir is a novel, potent, highly selective, orally bioavailable **HCV NS3 protease** inhibitor with **K_i** of 14 nM in both enzyme assay and **EC_{90}** of 350 nM in cell-based replicon assay.

IC50 & Target: Ki: 14 nM (HCV NS3 protease)[1]

In Vitro: In the HCV NS3 protease continuous assay, Boceprevir (SCH 503034) has a potency of 14 nM (K_i) average over a large number of runs. In the 72-h bicistronic subgenomic cell-based replicon assay in HuH-7 cells, the EC_{50} and EC_{90} values are determined to be 0.20 μM and 0.35 μM, respectively. Boceprevir is also found to be a very weak inhibitor of HNE (K_i=26 μM) representing a selectivity of 2200[1].

In Vivo: Boceprevir, an HCV Protease Inhibitor for the Treatment of Hepatitis C Virus Infection. The pharmacokinetic profile of Boceprevir is evaluated in several animal species. Following oral administration, Boceprevir is moderately absorbed in rats (10 mg/kg), dogs (3 mg/kg), and monkeys (3 mg/kg). Absorption is relatively rapid in dogs but slower in mice (10 mg/kg), rats, and monkeys, as evidenced by mean absorption times (MAT) ranging from 0.5 to 1.4 h. The AUC is good in dogs and rats, moderate in mouse, and low in monkeys. The absolute oral bioavailability is modest in mouse, rats, and dogs (26-34%) but low in monkeys (4%) [1]. Boceprevir (100 mg/kg, orally) inhibit HCV NS3/4A protease activity in triple-transgenic mice[2].