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

Simeprevir

Catalog No: tcsc0338

Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg

Specifications

CAS No:
923604-59-5

Formula:
$C_{38}H_{47}N_5O_7S_2$

Pathway:
Metabolic Enzyme/Protease;Anti-infection

Target:
HCV Protease;HCV

Purity / Grade:
>98%

Solubility:
DMSO : 14.29 mg/mL (19.05 mM; Need ultrasonic)

Alternative Names:
TMC435

Observed Molecular Weight:
749.94

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Product Description

Simeprevir is a potent **HCV NS3/4A protease** inhibitor, and inhibits HCV replication with **EC_{50}** of 8 nM.

IC50 & Target: EC50: 8 nM

In Vitro: In Huh7-Luc cells, antiviral activity of simeprevir (TMC435350) is dose dependent, and the EC_{50} and EC_{90} values determined for TMC435350 are 8 nM and 24 nM, respectively. Inhibition of TMC435350 on NS3/4A protease is time dependent, and the overall K_is are estimated to be 0.5 nM for genotype 1a and 0.4 nM for genotype 1b, respectively[1]. TMC435350 is a potent inhibitor of HCV NS3/4A protease (K_i=0.36 nM) and viral replication (replicon EC_{50}=7.8 nM)[2].

In Vivo: In rats, TMC435350 (40 mg/kg, p.o.) is extensively distributed to the liver and intestinal tract (tissue/plasma area under the concentration-time curve ratios of >35), and the absolute bioavailability is 44%[1].