

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

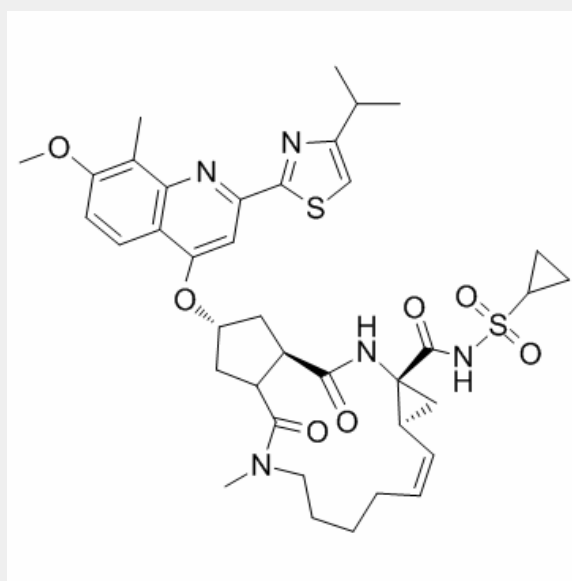
Product Description

Simeprevir is a potent **HCV NS3/4A protease** inhibitor, and inhibits HCV replication with **EC₅₀** of 8 nM.

IC50 & Target: EC50: 8 nM

In Vitro: In Huh7-Luc cells, antiviral activity of simeprevir (TMC435350) is dose dependent, and the EC₅₀ and EC₉₀ 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 EC₅₀=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].



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!