

Ledipasvir

Catalog No: tcsc1653



Available Sizes

Size: 5mg

Size: 10mg

Size: 50mg

Size: 100mg



Specifications

CAS No:

1256388-51-8

Formula:

$C_{49}H_{54}F_2N_8O_6$

Pathway:

Metabolic Enzyme/Protease;Anti-infection

Target:

HCV Protease;HCV

Purity / Grade:

>98%

Solubility:

10 mM in DMSO

Alternative Names:

GS-5885

Observed Molecular Weight:

889

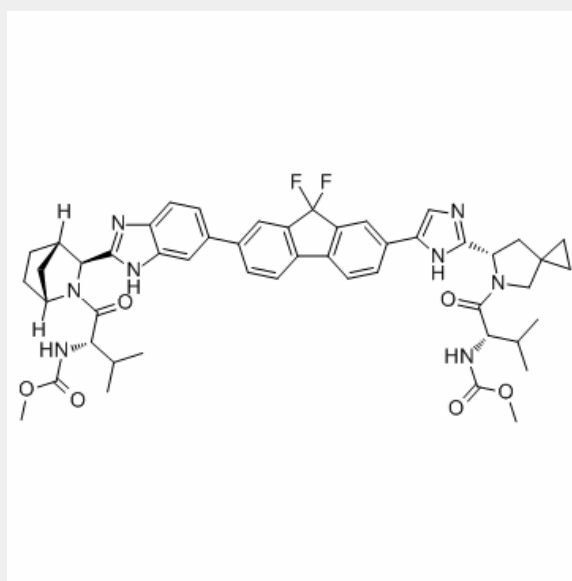
Product Description

Ledipasvir is an inhibitor of the **hepatitis C virus NS5A**, with **EC₅₀** values of 34 pM against GT1a and 4 pM against GT1b replicon.

IC50 & Target: EC50: 34 pM (GT1a), 4 pM (GT1b)^[1]

In Vitro: Ledipasvir has GT1a and 1b EC₅₀ values of 31 and 4 pM, respectively, and protein-adjusted EC₅₀ values of 210 pM (GT1a) and 27 pM (GT1b) and the intrinsic EC₅₀ of 39 is 310 fM for GT1a and 40 fM for GT1b. Ledipasvir is highly protein-bound both in human serum and in the cell-culture medium (containing 10% BSA) of the replicon assay^[1]. Ledipasvir exhibits an EC₅₀ value of 141 nM against the JFH/3a-NS5A replicon^[2].

In Vivo: Ledipasvir is remarkable not only on the basis of its high replicon potency but also on the basis of its low clearance, good bioavailability, and long half-lives in rat, dog, and monkey and low predicted clearance in human. The pharmacokinetics of Ledipasvir is measured in rats and dogs. Ledipasvir shows good half-lives (rat 1.83 ± 0.22 hr, dog 2.63 ± 0.18 hr) in plasma, low systemic clearance (CL), and moderate volumes of distribution (Vss) that are greater than total body water volume^[1].



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