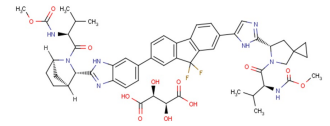


Data Sheet (Cat.No.T11832)

Ledipasvir D-tartrate

Chemical Properties

CAS No.:	1502654-87-6
Formula:	C53H60F2N8O12
Molecular Weight:	1039.09
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	Ledipasvir D-tartrate with EC50 values of 34 pM against GT1a and 4 pM against GT1b replicon. is an inhibitor of the hepatitis C virus NS5A.
Targets(IC50)	GT1a: (EC50) 34 pM GT1b: 4 pM
In vitro	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]. 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.
In vivo	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]. 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.

Solubility Information

Solubility	DMSO: 28 mg/mL (26.95 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.962 mL	4.812 mL	9.624 mL
5 mM	0.192 mL	0.962 mL	1.925 mL
10 mM	0.096 mL	0.481 mL	0.962 mL
50 mM	0.019 mL	0.096 mL	0.192 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Link JO, et al. Discovery of ledipasvir (GS-5885): a potent, once-daily oral NS5A inhibitor for the treatment of hepatitis C virus infection. *J Med Chem.* 2014 Mar 13;57(5):2033-46
2. Hernandez D, et al. Natural prevalence of NS5A polymorphisms in subjects infected with hepatitis C virus genotype 3 and their effects on the antiviral activity of NS5A inhibitors. *J Clin Virol.* 2013 May;57(1):13-8.

Inhibitors · Natural Compounds · Compound Libraries

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