

Paritaprevir

Chemical Properties

CAS No. : 1216941-48-8

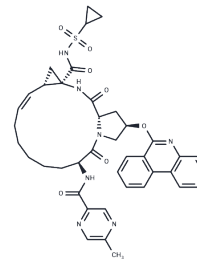
Formula: C₄₀H₄₃N₇O₇S

Molecular Weight: 765.88

Storage: Keep away from direct sunlight, Keep away from moisture

Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Paritaprevir free base (ABT-450) is an orally bioavailable, synthetic acylsulfonamide inhibitor of the hepatitis C virus (HCV) protease complex comprised of non-structural protein 3 and 4A (NS3/NS4A), with potential activity against HCV genotype 1. Upon administration, paritaprevir reversibly binds to the active center and binding site of the HCV NS3/NS4A protease and prevents NS3/NS4A protease-mediated polyprotein maturation. This disrupts both the processing of viral proteins and the formation of the viral replication complex, which inhibits viral replication in HCV genotype 1-infected host cells.
Targets(IC50)	HCV Protease,SARS-CoV
In vivo	Paritaprevir/ritonavir/ombitasvir with dasabuvir (PrOD) is a novel combination of a nonstructural (NS) 3/4A protein inhibitor boosted by ritonavir, an NS5A protein inhibitor, and an NS5B nonnucleoside polymerase inhibitor. The combination of paritaprevir, ritonavir, ombitasvir (an NS5A protein inhibitor), and dasabuvir (an NS5B non-nucleoside polymerase inhibitor) with or without RBV has been approved to treat HCV genotype 1 infections ¹ [1].

Solubility Information

Solubility	DMSO: 80 mg/mL (104.46 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (4.31 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3057 mL	6.5284 mL	13.0569 mL
5 mM	0.2611 mL	1.3057 mL	2.6114 mL
10 mM	0.1306 mL	0.6528 mL	1.3057 mL
50 mM	0.0261 mL	0.1306 mL	0.2611 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Deeks ED. *Drugs*. 2015, 75(9):1027-38.

Pilot-Matias T, et al. *Antimicrob Agents Chemother*. 2015, 59(2):988-97.

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