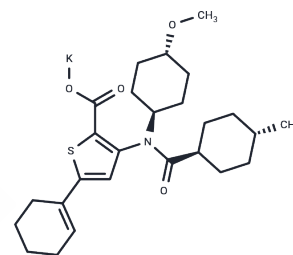


VCH-916

Chemical Properties

CAS No. : 1200133-34-1
 Formula: C₂₆H₃₆KNO₄S
 Molecular Weight: 497.73
 Storage: 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	VCH-916 is a new nonnucleoside inhibitor of HCV NS5B polymerase.
Targets(IC50)	HCV Protease

Solubility Information

Solubility	DMSO: 36 mg/mL (72.33 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: 2 mg/mL (4.02 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	2.0091 mL	10.0456 mL	20.0912 mL
5 mM	0.4018 mL	2.0091 mL	4.0182 mL
10 mM	0.2009 mL	1.0046 mL	2.0091 mL
50 mM	0.0402 mL	0.2009 mL	0.4018 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

Abdelrahman S. Mayhoub. Hepatitis C RNA-dependent RNA polymerase inhibitors: A review of structure-activity and resistance relationships; different scaffolds and mutations. *Bioorganic & Medicinal Chemistry*. 2012, 20 (10): 3150-3161.

Debasis Dasa, Jian Honga, Shu-Hui Chena, et al. Recent advances in drug discovery of benzothiadiazine and related analogs as HCV NS5B polymerase inhibitors. *Bioorganic & Medicinal Chemistry*. 2011, 19(16): 4690-4703

Pierre L Beaulieu. Recent advances in the development of NS5B polymerase inhibitors for the treatment of hepatitis C virus infection. *Informahealthcare*. 2009, 19(2): 145-164

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