

ccc_R08

Chemical Properties

CAS No. : 2919019-72-8

Formula: C₂₂H₁₉ClO₆

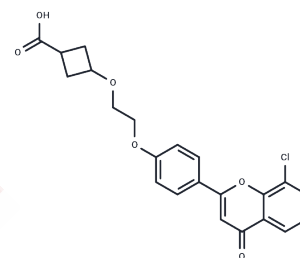
Molecular Weight: 414.84

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	ccc_R08 is an orally available HBV cccDNA inhibitor that reduces extracellular levels of HBV DNA, HBsAg, and HBeAg in a dose-dependent manner. ccc_R08 is investigational for use in the treatment of HBV infections. ccc_R08 has been shown to be effective in the treatment of hepatitis C virus (HCV).
Targets(IC50)	HBV
In vitro	In HepDES19 cells, ccc_R08 (0.3, 1.0, 3.2, 10, 32 μM; 5 days) reduced the levels of cccDNA, protein-free RC-DNA, and double-stranded linear DNA (DL-DNA)[1].
In vivo	In the HBV circle mouse model, ccc_R08 (20 mg/kg; oral administration; twice daily for 2 weeks) led to the clearance of cccDNA from the livers of HBV circle mice[1].

Solubility Information

Solubility	DMSO: 80 mg/mL (192.85 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4106 mL	12.0528 mL	24.1057 mL
5 mM	0.4821 mL	2.4106 mL	4.8211 mL
10 mM	0.2411 mL	1.2053 mL	2.4106 mL
50 mM	0.0482 mL	0.2411 mL	0.4821 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

Wang L, et al. Discovery of a first-in-class orally available HBV cccDNA inhibitor. *J Hepatol.* 2022 Dec 29:S0168-8278(22)03466-3.

Ligat G, et al. Targeting Viral cccDNA for Cure of Chronic Hepatitis B. *Curr Hepatol Rep.* 2020 Sep;19(3):235-244.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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