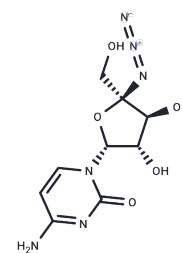


RO-9187

Chemical Properties

CAS No. : 876708-03-1
 Formula: C₉H₁₂N₆O₅
 Molecular Weight: 284.23
 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 | RO-9187 is an effective HCV virus replication inhibitor(IC ₅₀ : 171 nM). |
| Targets(IC ₅₀) | HCV Protease |
| In vitro | RO-9187 suppresses RNA synthesis by HCV polymerases from either HCV genotypes 1a and 1b or containing S96T or S282T point mutations with similar potencies, suggesting no cross-resistance with either R1479 or 2'-C-methyl nucleosides. RO-9187 is excellent substrates for deoxycytidine kinase and is phosphorylated with efficiencies up to 3-fold higher than deoxycytidine. The formation of RO-9187-TP increased in a time- and dose-dependent manner [1]. |
| In vivo | Plasma exposures of RO-9187 in rats increase dose-dependently from 10 to 2000 mg/kg after oral administration. Plasma concentrations of RO-9187 (1.4 and 26 μM) are achieved in rats and dogs at the 10 mg/kg dose, respectively, with concentrations reaching up to 57 μM in rats at 2000 mg/kg/day[1]. |

Solubility Information

| | |
|------------|---|
| Solubility | H ₂ O: 7.14 mg/mL (25.12 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 3.5183 mL | 17.5914 mL | 35.1828 mL |
| 5 mM | 0.7037 mL | 3.5183 mL | 7.0366 mL |
| 10 mM | 0.3518 mL | 1.7591 mL | 3.5183 mL |
| 50 mM | 0.0704 mL | 0.3518 mL | 0.7037 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

Klumpp K, et al. 2'-deoxy-4'-azido nucleoside analogs are highly potent inhibitors of hepatitis C virus replication despite the lack of 2'-alpha-hydroxyl groups. J Biol Chem. 2008 Jan 25;283(4):2167-75.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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