

RG7834

Chemical Properties

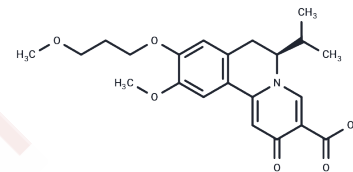
CAS No. : 2072057-17-9

Formula: C22H27NO6

Molecular Weight: 401.45

Storage: Store at low temperature
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	RG7834 (RO 7020322) is a highly selective and orally bioavailable inhibitor of HBV, targeting HBsAg, HBeAg, and HBV DNA with IC50s of 2.8 nM, 2.6 nM, and 3.2 nM, respectively, in dHepaRG Cells.
Targets(IC50)	HBV
In vitro	RG7834 ((S)-(+)-64) is a highly selective and orally bioavailable inhibitor of HBV, potently inhibiting HBV antigens (HBsAg and HBeAg) and HBV DNA with IC50s of 2.8, 2.6, and 3.2 nM, respectively, in dHepaRG cells. RG7834 exhibits no activity against CYP3A4, CYP2D6, CYP2C9 (IC50s >50 μM) or the hERG channel.
In vivo	In HBV-infected human liver chimeric uPA-SCID mice, RG7834 shows anti-HBV efficacy. RG7834 (2, 14.5 mg/kg, p.o.) exhibits good oral bioavailability, and with a half-life of 4.9 h in mice.

Solubility Information

Solubility	DMSO: 140 mg/mL (348.74 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: 4 mg/mL (9.96 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	2.491 mL	12.4549 mL	24.9097 mL
5 mM	0.4982 mL	2.491 mL	4.9819 mL
10 mM	0.2491 mL	1.2455 mL	2.491 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 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

Han X, et al. Discovery of RG7834: The First-in-Class Selective and Orally Available Small Molecule Hepatitis B Virus Expression Inhibitor with Novel Mechanism of Action. J Med Chem. 2018 Oct 4.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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