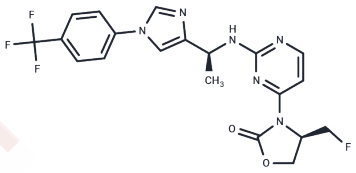
Data Sheet (Cat.No.T11613)

TargetMol

IDH1 Inhibitor 1

Chemical Properties



CAS No. : 2234285-81-3

Formula: C20H18F4N6O2

Molecular Weight: 450.39

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	IDH1 Inhibitor 1 is an orally bioavailable, brain-penetrant, and selective mutant IDH1 inhibitor (IC50s: 0.021 μM, 0.045 μM, and 2.52 μM for IDH1R132H, IDH1R132C, and IDH1WT).
Targets(IC50)	Others,Isocitrate Dehydrogenase (IDH)
In vitro	IDH1 Inhibitor 1 inhibits cellular HCT116-IDH1R132H/+ with an IC50 of 0.039 μM.
In vivo	IDH1 Inhibitor 1 is also profiled in a patient-derived IDH1 mutant HCT116-IDH1R132H/+ mechanistic xenograft tumor model in mice to evaluate in vivo inhibition of 2-HG production. IDH1 Inhibitor 1, dosed orally at 150 mg/kg, inhibits new 2-HG production. IDH1 Inhibitor 1 ?inhibits 2-hydroxyglutarate (2-HG) production in a preclinical xenograft tumor model.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2203 mL	11.1015 mL	22.203 mL
5 mM	0.4441 mL	2.2203 mL	4.4406 mL
10 mM	0.222 mL	1.1101 mL	2.2203 mL
50 mM	0.0444 mL	0.222 mL	0.4441 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

Zhao Q, et al. Optimization of 3-Pyrimidin-4-yl-oxazolidin-2-ones as Orally Bioavailable and Brain Penetrant Mutant IDH1 Inhibitors. ACS Med Chem Lett. 2018 Jun 11;9(7):746-751.

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