

IDH889

Chemical Properties

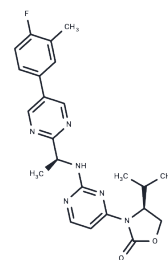
CAS No. : 1429179-07-6

Formula: C₂₃H₂₅FN₆O₂

Molecular Weight: 436.48

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	IDH889 is a brain penetrant, an allosteric and mutant specific IDH1 inhibitor. IDH889 has effective selectivity for IDH1 R132* mutations (IC ₅₀ s: 0.02 μM, 0.072 μM, and 1.38 μM for IDH1R132H, IDH1R132C, and IDH1wt).
Targets(IC ₅₀)	Dehydrogenase, Isocitrate Dehydrogenase (IDH)
In vitro	IDH889 displays effective cellular inhibition of R-2-hydroxyglutarate (2-HG) production (IC ₅₀ : 0.014 μM).

Solubility Information

Solubility	DMSO: 60 mg/mL (137.46 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 5 mg/mL (11.46 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	2.2911 mL	11.4553 mL	22.9106 mL
5 mM	0.4582 mL	2.2911 mL	4.5821 mL
10 mM	0.2291 mL	1.1455 mL	2.2911 mL
50 mM	0.0458 mL	0.2291 mL	0.4582 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

Levell JR, et al. Optimization of 3-Pyrimidin-4-yl-oxazolidin-2-ones as Allosteric and Mutant Specific Inhibitors of IDH1. ACS Med Chem Lett. 2016 Dec 16;8(2):151-156.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481