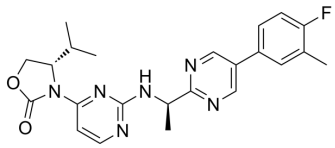
(1R)-IDH889

Cat. No.:	HY-112289B
CAS No.:	1429179-08-7
Molecular Formula:	$C_{23}H_{25}FN_6O_2$
Molecular Weight:	436.48
Target:	Isocitrate Dehydrogenase (IDH)
Pathway:	Metabolic Enzyme/Protease
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 200 mg/mL (458.21 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 5 mg/mL (11.46 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 5 mg/mL (11.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(1R)-IDH889 is the isomer of IDH889 (HY-112289), and can be used as an experimental control. IDH889 is an orally available, brain penetrant, allosteric and mutant specific inhibitor of isocitrate dehydrogenase 1 (IDH1). IDH889 has potent selectivity for IDH1 R132* mutations, with IC_{50}s of 0.02 μM, 0.072 μM and 1.38 μM for $IDH1^{R132H}$, $IDH1^{R132C}$ and $IDH1^{wt}$, respectively. IDH889 shows potent cellular inhibition of R-2-hydroxyglutarate (2-HG) production with an IC_{50} of 0.014 μM[1].

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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