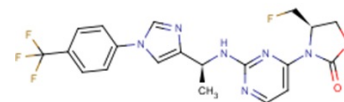


## IDH1 Inhibitor 1

## Chemical Properties

CAS No.:	2234285-81-3
Formula:	C <sub>20</sub> H <sub>18</sub> F <sub>4</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	450.39
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	IDH1 Inhibitor 1 is an orally bioavailable, brain-penetrant, and selective mutant IDH1 inhibitor (IC <sub>50</sub> s: 0.021 μM, 0.045 μM, and 2.52 μM for IDH1R132H, IDH1R132C, and IDH1WT).
Targets(IC <sub>50</sub> )	IDH1R132H: 0.021 μM IDH1R132C: 0.045 μM IDH1WT: 2.52 μM
In vitro	IDH1 Inhibitor 1 inhibits cellular HCT116-IDH1R132H/+ (IC <sub>50</sub> : 0.039 μM).
In vivo	IDH1 Inhibitor 1 (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.

## Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.22 mL	11.101 mL	22.203 mL
5 mM	0.444 mL	2.22 mL	4.441 mL
10 mM	0.222 mL	1.11 mL	2.22 mL
50 mM	0.044 mL	0.222 mL	0.444 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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