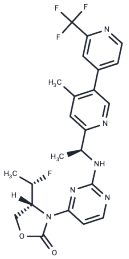
# Data Sheet (Cat.No.T15550)

TargetMol
YOUR TARGET MOLECULES

IDH-305

## Chemical Properties



CAS No. : 1628805-46-8

Formula: C23H22F4N6O2

Molecular Weight: 490.45

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

## Biological Description

| | |
|---|---|
| Description | IDH-305 is an orally available, mutation-selective, and brain-penetrant IDH1 inhibitor targeting the IDH1 (R132) mutation. IDH-305 is 200-fold more selective for mutant IDH1 isoforms than wild type with IC50s of 27 nM,28 nM and 6.14 nM for IDH1R132H, IDH1R132C and IDH1WT, respectively. |
| Targets(IC50) | Dehydrogenase |
| In vitro | IDH-305 suppresses HCT116-IDH1R132H /- cells (IC50 of 24 nM)[1]. |
| In vivo | P.o. administration of 30-300 mg/kg IDH-305 twice daily for 21 days suppresses 2-HG production and 2-HG-dependent tumor growth of an IDH1 mutant PDX melanoma model [1]. |

## Solubility Information

| | |
|---|---|
| Solubility | DMSO: 100 mg/mL (203.90 mM)<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|---|---|---|---|
| 1 mM | 2.0389 mL | 10.1947 mL | 20.3894 mL |
| 5 mM | 0.4078 mL | 2.0389 mL | 4.0779 mL |
| 10 mM | 0.2039 mL | 1.0195 mL | 2.0389 mL |
| 50 mM | 0.0408 mL | 0.2039 mL | 0.4078 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.

Reference

Cho YS, et al. Discovery and Evaluation of Clinical Candidate IDH305, a Brain Penetrant Mutant IDH1 Inhibitor. ACS Med Chem Lett. 2017 Sep 18;8(10):1116-1121.