

IHMT-IDH1-053

## Chemical Properties

CAS No. :

Formula: C25H33FN6O4S

Molecular Weight: 532.63

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	IHMT-IDH1-053 (compound 16) is an irreversible inhibitor highly selective for the IDH1 R132H mutant, with an IC <sub>50</sub> of 4.7 nM. It preferentially targets IDH1 mutants over wild-type IDH1 and IDH2, in both their wild-type and mutant forms. In 293T cells transfected with the IDH1 R132H mutant, IHMT-IDH1-053 reduces 2-hydroxyglutarate (2-HG) production with an IC <sub>50</sub> of 28 nM. The compound binds to the R132H protein at an allosteric site near the NADPH binding region, forming a covalent linkage with Cys269. Additionally, IHMT-IDH1-053 inhibits the growth of both the HT1080 cell line and primary acute myeloid leukemia (AML) cells harboring IDH1 R132 mutations [1].
Targets(IC <sub>50</sub> )	Isocitrate Dehydrogenase (IDH)

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8775 mL	9.3874 mL	18.7748 mL
5 mM	0.3755 mL	1.8775 mL	3.755 mL
10 mM	0.1877 mL	0.9387 mL	1.8775 mL
50 mM	0.0375 mL	0.1877 mL	0.3755 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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