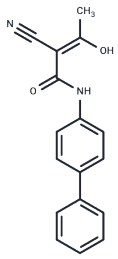
Data Sheet (Cat.No.T11546)

TargetMol

hDHODH-IN-1

Chemical Properties



CAS No. : 1173715-42-8

Formula: C17H14N2O2

Molecular Weight: 278.31

Appearance: no data available

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

Biological Description

Description	hDHODH-IN-1 is a human dihydroorotate dehydrogenase (hDHODH) inhibitor exhibiting anti-inflammatory properties.
Targets(IC50)	Dehydrogenase
In vitro	Human dihydroorotate dehydrogenase (hDHODH), a class-2 dihydroorotate dehydrogenase, is essential for proliferating-cell viability. Consequently, inhibitors targeting hDHODH activity have been developed to address conditions such as cancers, inflammatory diseases, autoimmune disorders, and multiple sclerosis.

Solubility Information

Solubility	DMSO: 50 mg/mL (179.66 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5931 mL	17.9656 mL	35.9312 mL
5 mM	0.7186 mL	3.5931 mL	7.1862 mL
10 mM	0.3593 mL	1.7966 mL	3.5931 mL
50 mM	0.0719 mL	0.3593 mL	0.7186 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

Shih KC, et al. Development of a human dihydroorotate dehydrogenase (hDHODH) pharma-similarity index approach with scaffold-hopping strategy for the design of novel potential inhibitors. PLoS One. 2014 Feb 4;9(2): e87960.

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