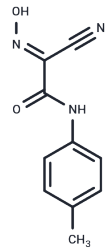
Data Sheet (Cat.No.T11021)

TargetMol

DHODH-IN-12

Chemical Properties



CAS No. : 1263303-93-0

Formula: C10H9N3O2

Molecular Weight: 203.2

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	DHODH-IN-12 is a leflunomide derivative and a weak dihydrorotate dehydrogenase (DHODH) inhibitor with a pKa of 5.07.
Targets(IC50)	Dehydrogenase,DNA/RNA Synthesis
In vitro	A compound structurally related to leflunomide was designed, which contained a furan ring. Compound 12a undergoes 4 ring cleavage under physiological pH conditions to obtain the corresponding cyanoxime DHODH-IN-12. DHODH-IN-12 has been analyzed as a DHODH inhibitor; its inefficiency may be due to the poor stereochemistry of the oxime substructure[1].

Solubility Information

Solubility	DMSO: 60 mg/mL (295.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9213 mL	24.6063 mL	49.2126 mL
5 mM	0.9843 mL	4.9213 mL	9.8425 mL
10 mM	0.4921 mL	2.4606 mL	4.9213 mL
50 mM	0.0984 mL	0.4921 mL	0.9843 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.

Reference

Giorgis M, et al. 1,2,5-Oxadiazole analogues of leflunomide and related compounds. Eur J Med Chem. 2011 Jan;46 (1):383-92.

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