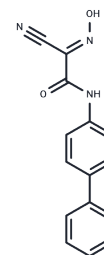


## DHODH-IN-11

## Chemical Properties

CAS No. :	1263303-95-2
Formula:	C <sub>15</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	265.27
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-11 is a leflunomide derivative and weak dihydroorotate dehydrogenase (DHODH) inhibitor with a pKa of 5.03.
Targets(IC50)	Dehydrogenase,DNA/RNA Synthesis
In vitro	A compound structurally related to leflunomide was designed, which contained furan ring (compound 14a). Compound 14a undergoes 4 ring cleavage under physiological pH conditions to obtain the corresponding cyanooxime DHODH-IN-11 (compound 14b). DHODH-IN-14 has been analyzed as a DHODH inhibitor; its inefficiency may be due to the unfavorable stereochemistry of the oxime substructure.

## Solubility Information

Solubility	DMSO: 25 mg/mL (94.24 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.7697 mL	18.8487 mL	37.6974 mL
5 mM	0.7539 mL	3.7697 mL	7.5395 mL
10 mM	0.377 mL	1.8849 mL	3.7697 mL
50 mM	0.0754 mL	0.377 mL	0.7539 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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