

hDHODH-IN-1

Chemical Properties

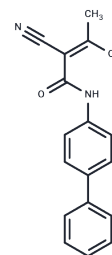
CAS No. : 1173715-42-8

Formula: C₁₇H₁₄N₂O₂

Molecular Weight: 278.31

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	hDHODH-IN-1 is a human dihydroorotate dehydrogenase (hDHODH) inhibitor exhibiting anti-inflammatory properties.
Targets(IC50)	Dehydrogenase,DNA/RNA Synthesis
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)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.19 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

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.

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

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481