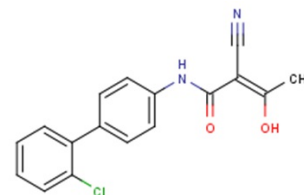


DHODH-IN-8

Chemical Properties

CAS No.:	1148126-03-7
Formula:	C ₁₇ H ₁₃ ClN ₂ O ₂
Molecular Weight:	312.75
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	DHODH-IN-8 has antimalarial activity. DHODH-IN-8 is an inhibitor of human and Plasmodium falciparum dihydroorotate dehydrogenase (DHODH) with IC ₅₀ of 0.13 μM and 47.4 μM, and K _i s of 0.016 μM and 5.6 μM, respectively.
Targets(IC ₅₀)	human DHODH: (K _i)0.016 μM Plasmodium falciparum DHODH: 5.6 μM
In vitro	Dihydroorotic acid dehydrogenase (DHODH) is an attractive chemotherapeutic target among various pathogens, such as Plasmodium falciparum and Helicobacter pylori, and is used to treat human diseases. DHODH catalyzes the conversion of dihydroorotate (DHO) to orotate by using the FMN cofactor in the only redox reaction present in the pyrimidine biosynthesis pathway. Human DHODH (HsDHODH)a and Plasmodium falciparum DHODH (PfDHODH) are both DHODHs using respiratory quinones as terminal electron acceptors.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.197 mL	15.987 mL	31.974 mL
5 mM	0.639 mL	3.197 mL	6.395 mL
10 mM	0.32 mL	1.599 mL	3.197 mL
50 mM	0.064 mL	0.32 mL	0.639 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Davies M, et al. Structure-based design, synthesis, and characterization of inhibitors of human and Plasmodium falciparum dihydroorotate dehydrogenases. J Med Chem. 2009 May 14;52(9):2683-93.

Inhibitors · Natural Compounds · Compound Libraries

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