Data Sheet (Cat.No.T210457)

TargetMol

DHODH-IN-31

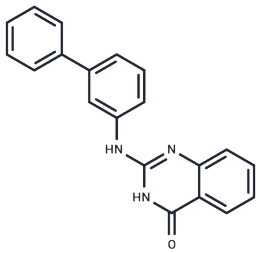
Chemical Properties

CAS No. :

Formula: C20H15N3O

Molecular Weight: 313.35

Storage: Store at low temperature
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-31 is a human dihydroorotate dehydrogenase (DHODH) inhibitor with an IC50 of 0.59 μM. DHODH-IN-31 exhibits antiviral activity, enabling research into infectious diseases such as SARS-CoV-2 and facilitating the development of antiviral therapeutics and mechanistic studies of nucleotide biosynthesis pathways in human cells.
Targets(IC50)	Dehydrogenase
In vitro	DHODH-IN-31 (Compound 10e) exhibits anti-SARS-CoV-2 viral activity with an EC50 value of 0.15 μM [1]. In Vero cells and SH-SY5Y cells, the CC50 values of DHODH-IN-31 in these two cell lines were 26 μM and 180 μM, respectively [1]. In Calu-3 cells, DHODH-IN-31 (0.01-10 μM) can inhibit the replication of the SARS-CoV-2 virus [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1913 mL	15.9566 mL	31.9132 mL
5 mM	0.6383 mL	3.1913 mL	6.3826 mL
10 mM	0.3191 mL	1.5957 mL	3.1913 mL
50 mM	0.0638 mL	0.3191 mL	0.6383 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

Bruna F. Godoi, et al. Quinazolinones as Bioisosteres of Naphthoquinones: A Path to Potent HsDHODH Inhibitors with Optimized Properties. ACS Medicinal Chemistry Letters Article ASAP

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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