

## DHODH-IN-1

## Chemical Properties

CAS No.:	1800296-63-2
Formula:	C <sub>21</sub> H <sub>20</sub> F <sub>3</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	403.4
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-1 is a potent dihydroorotate dehydrogenase (DHODH) inhibitor with IC <sub>50</sub> of 25 nM. DHODH-IN-1 is an inhibitor of the pyrimidine biosynthetic pathway.
Targets(IC <sub>50</sub> )	DHODH: 25 nM
In vitro	DHODH-IN-1 (4, 20, 100 nM) prevents measles virus from replicating in cells. When transfecting cells with ssRNA molecules, DHODH-IN-1 (0.008, 0.04, 0.2, 1, 5 µM) can increase the expression of ISRE luciferase reporter gene. DHODH-IN-1 (Compound 18d) strongly inhibited Jurkat cell proliferation (IC <sub>50</sub> = 0.02 µM).
In vivo	DHODH-IN-1 (4, 20, 100 nM) prevents measles virus from replicating in cells. When transfecting cells with ssRNA molecules, DHODH-IN-1 (0.008, 0.04, 0.2, 1, 5 µM) can increase the expression of ISRE luciferase reporter gene. DHODH-IN-1 (Compound 18d) strongly inhibited Jurkat cell proliferation (IC <sub>50</sub> = 0.02 µM).

## 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	2.479 mL	12.395 mL	24.789 mL
5 mM	0.496 mL	2.479 mL	4.958 mL
10 mM	0.248 mL	1.239 mL	2.479 mL
50 mM	0.05 mL	0.248 mL	0.496 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. Lucas-Hourani M, et al.Original 2-(3-Alkoxy-1H-pyrazol-1-yl)azines Inhibitors of Human Dihydroorotate Dehydrogenase (DHODH).J Med Chem. 2015 Jul 23;58(14):5579-98.

Inhibitors · Natural Compounds · Compound Libraries

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