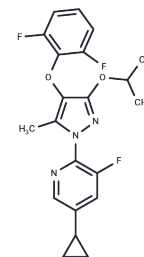


## DHODH-IN-1

## 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
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-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> )	Dehydrogenase,DNA/RNA Synthesis
In vitro	DHODH-IN-1 (4-100 nM) prevents the measles virus from replicating in cells. When transfecting cells with ssRNA molecules, DHODH-IN-1 (0.008-5 μM) can increase the expression of ISRE luciferase reporter gene. DHODH-IN-1 inhibits Jurkat cell proliferation with an IC <sub>50</sub> value of 0.02 μM[1].
In vivo	The t <sub>1/2</sub> for DHODH-IN-1 is 27-41 min[1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (136.34 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 (4.96 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.4789 mL	12.3946 mL	24.7893 mL
5 mM	0.4958 mL	2.4789 mL	4.9579 mL
10 mM	0.2479 mL	1.2395 mL	2.4789 mL
50 mM	0.0496 mL	0.2479 mL	0.4958 mL

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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

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.

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