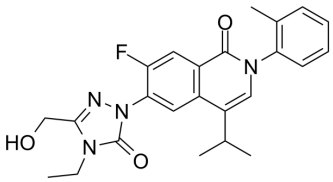
DHODH-IN-16

Cat. No.:	HY-139189
CAS No.:	2511248-11-4
Molecular Formula:	$C_{24}H_{25}FN_4O_3$
Molecular Weight:	436.48
Target:	Dihydroorotate Dehydrogenase; DNA/RNA Synthesis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (229.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.2911 mL	11.4553 mL	22.9106 mL
	5 mM	0.4582 mL	2.2911 mL	4.5821 mL
	10 mM	0.2291 mL	1.1455 mL	2.2911 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (5.73 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (5.73 mM); Clear solution

BIOLOGICAL ACTIVITY

Description	DHODH-IN-16 is a potent dihydroorotate dehydrogenase (DHODH) inhibitor with an IC_{50} of 0.396 nM for human DHODH[1].
IC_{50} & Target	IC50: 0.396 nM (human DHODH)[1]
In Vitro	DHODH-IN-16 (Example 22) potently inhibits the growth of MOLM-13 cells with an IC_{50} of 0.2 nM[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Scott Kuduk, et al. Dihydroorotate dehydrogenase inhibitors. WO2020212897A1.

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