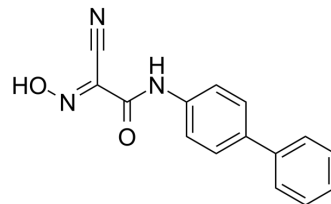


## DHODH-IN-11

Cat. No.:	HY-135675
CAS No.:	1263303-95-2
Molecular Formula:	C <sub>15</sub> H <sub>11</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	265.27
Target:	Dihydroorotate Dehydrogenase; DNA/RNA Synthesis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	-20°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (471.22 mM; Need ultrasonic)				
		Solvent Concentration	Mass		
	Preparing Stock Solutions		1 mg	5 mg	10 mg
		1 mM	3.7697 mL	18.8487 mL	37.6974 mL
		5 mM	0.7539 mL	3.7697 mL	7.5395 mL
	10 mM	0.3770 mL	1.8849 mL	3.7697 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: 2.08 mg/mL (7.84 mM); Suspended solution; Need ultrasonic				

### BIOLOGICAL ACTIVITY

Description	DHODH-IN-11 (Compound 14b) is a Leflunomide derivative and a weak dihydroorotate dehydrogenase (DHODH) inhibitor with a pK <sub>a</sub> of 5.03 <sup>[1]</sup> .
IC <sub>50</sub> & Target	pKa: 5.03 (DHODH) <sup>[1]</sup>
In Vitro	Designed a compound structurally related to Leflunomide, containing the furazan ring (Compound 14a), is designed. Compound 14a undergo ring 4 scission under physiological pH conditions to afford the corresponding cyano-oximes DHODH-IN-11 (Compound 14b). DHODH-IN-14 has been assayed as a DHODH inhibitor; its low potency is probably due to the unfavourable stereochemistry of the oxime substructure <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### REFERENCES

**Caution: Product has not been fully validated for medical applications. For research use only.**

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