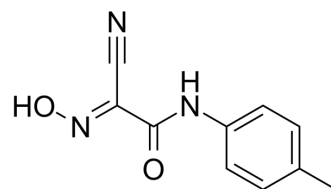


## DHODH-IN-12

Cat. No.:	HY-135676
CAS No.:	1263303-93-0
Molecular Formula:	C <sub>10</sub> H <sub>9</sub> N <sub>3</sub> O <sub>2</sub>
Molecular Weight:	203.2
Target:	Dihydroorotate Dehydrogenase; DNA/RNA Synthesis
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	DHODH-IN-12 (Compound 12b) is a Leflunomide derivative and a weak dihydroorotate dehydrogenase (DHODH) inhibitor with a pK <sub>a</sub> of 5.07 <sup>[1]</sup> .
IC <sub>50</sub> & Target	pKa: 5.07 (DHODH) <sup>[1]</sup>
In Vitro	Designed a compound structurally related to Leflunomide, containing the furazan ring (Compound 12a), is designed. Compound 12a undergo ring 4 scission under physiological pH conditions to afford the corresponding cyano-oximes DHODH-IN-12 (Compound 12b). DHODH-IN-12 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

[1]. Giorgis M, et al. 1,2,5-Oxadiazole analogues of leflunomide and related compounds. Eur J Med Chem. 2011 Jan;46(1):383-92.

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

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