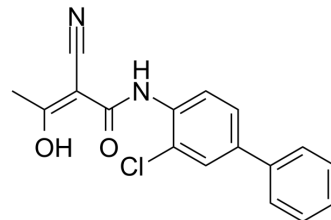


DHODH-IN-3

Cat. No.:	HY-135618
CAS No.:	1148126-04-8
Molecular Formula:	C ₁₇ H ₁₃ ClN ₂ O ₂
Molecular Weight:	312.75
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-3 (compound 3) is a potent inhibitor of Human Dihydroorotate Dehydrogenases (HsDHODH) with an IC ₅₀ value of 261 nM. DHODH-IN-3 binds to the the ubiquinone binding cavities in DHODH with a K _i ^{app} of 32 nM. DHODH-IN-3 has the potential for malaria treatment ^[1] .
IC₅₀ & Target	IC ₅₀ : 261 nM (HsDHODH) ^[1]
In Vitro	DHODH-IN-3 (compound 3) show good inhibitory effects on HsDHODH with IC ₅₀ value of 261 nM. It binds to HsDHODH with a K _i ^{app} value of 32 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Davies M, et al. Structure-based design, synthesis, and characterization of inhibitors of human and Plasmodium falciparum dihydroorotate dehydrogenases. *J Med Chem.* 2009 May 14;52(9):2683-93.

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

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