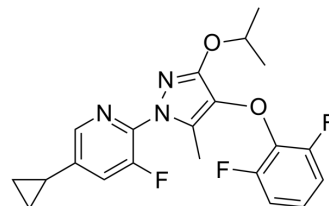


DHODH-IN-1

Cat. No.:	HY-135282
CAS No.:	1800296-63-2
Molecular Formula:	C ₂₁ H ₂₀ F ₃ N ₃ O ₂
Molecular Weight:	403.4
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-1 (compound 18d) is a potent Dihydroorotate Dehydrogenase (DHODH) inhibitor with an IC ₅₀ of 25 nM. DHODH-IN-1 is an inhibitor of pyrimidine biosynthesis pathway ^[1] .									
IC₅₀ & Target	IC ₅₀ : 25 nM (DHODH) ^[1]									
In Vitro	<p>DHODH-IN-1 (compound 18d) strongly inhibits Jurkat cells proliferation (IC₅₀=0.02 μM)^[1]. DHODH-IN-1 (4, 20, 100 nM) blocks the measles virus replication in cells^[1]. DHODH-IN-1 (0.008, 0.04, 0.2, 1, 5 μM) increases the expression of an ISRE-luciferase reporter gene when transfecting cells with ssRNA molecules^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay^[1]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>Jurkat cells</td> </tr> <tr> <td>Concentration:</td> <td>0.00001, 0.0001, 0.001, 0.01, 0.1, 1, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>72 hours</td> </tr> <tr> <td>Result:</td> <td>Strongly inhibited Jurkat cells proliferation (IC₅₀=0.02 μM).</td> </tr> </table>		Cell Line:	Jurkat cells	Concentration:	0.00001, 0.0001, 0.001, 0.01, 0.1, 1, 10 μM	Incubation Time:	72 hours	Result:	Strongly inhibited Jurkat cells proliferation (IC ₅₀ =0.02 μM).
Cell Line:	Jurkat cells									
Concentration:	0.00001, 0.0001, 0.001, 0.01, 0.1, 1, 10 μM									
Incubation Time:	72 hours									
Result:	Strongly inhibited Jurkat cells proliferation (IC ₅₀ =0.02 μM).									
In Vivo	<p>DHODH-IN-1 (compound 18d) has a t_{1/2} of 27–41 min^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>									

REFERENCES

[1]. 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.

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

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