hDHODH-IN-12

MedChemExpress

Cat. No.:	HY-149877	
Molecular Formula:	$C_{22}H_{15}F_{3}N_{4}O_{3}$	0
Molecular Weight:	440.37	-0- ^{N+}
Target:	DNA/RNA Synthesis; Dihydroorotate Dehydrogenase	
Pathway:	Cell Cycle/DNA Damage; Metabolic Enzyme/Protease	
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.	

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Product Data Sheet

BIOLOGICAL ACTIVITY				
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Description	hDHODH-IN-12 is a potent DHODH inhibitor with an IC ₅₀ value of 0.421 μM. DHODH is the rate-limiting enzyme in the de novo synthesis of pyrimidine which is essential in DNA/RNA Synthesis. hDHODH-IN-12 is present in the inner membrane of human mitochondria.hDHODH-IN-12 can be used for the research of lung cancer ^[1] .			
IC ₅₀ & Target	IC ₅₀ : 0.421 μM (DHODH) ^[1]			
In Vitro	hDHODH-IN-12 (compound 5c) (100 μM; 24 h) reduces cell viability in A549, H1299 and H1975 cell lines ^[1] . The TC ₅₀ of A549, H1299, and H1975 cells are 11, 11 and 15 μM, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Viability Assay ^[1]			
	Cell Line:	A549, H1299, and H1975 cells		
	Concentration:	100 μΜ		
	Incubation Time:	24 h		
	Result:	Reduced cell viability by more than 50%.		

REFERENCES

[1]. Nada H, et al. Identification of Potent hDHODH Inhibitors for Lung Cancer via Virtual Screening of a Rationally Designed Small Combinatorial Library. ACS Omega. 2023 Jun 8;8(24):21769-21780.

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

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