

hDHODH-IN-12

Chemical Properties

CAS No. :

Formula: C₂₂H₁₅F₃N₄O₃

Molecular Weight: 440.37

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	hDHODH-IN-12 is a potent inhibitor of dihydroorotate dehydrogenase (DHODH), exhibiting an inhibitory concentration (IC ₅₀) of 0.421 μM. As the rate-limiting enzyme in the de novo synthesis of pyrimidines, critical for DNA/RNA synthesis, DHODH is localized within the inner membrane of human mitochondria. hDHODH-IN-12 is applicable in lung cancer research [1].
Targets(IC ₅₀)	Dehydrogenase,DNA/RNA Synthesis
In vitro	hDHODH-IN-12 (compound 5c) (100 μM; 24 h) exhibits TC ₅₀ values of 11 μM in A549, 11 μM in H1299, and 15 μM in H1975 cell lines and reduces cell viability in these cell lines [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2708 mL	11.3541 mL	22.7082 mL
5 mM	0.4542 mL	2.2708 mL	4.5416 mL
10 mM	0.2271 mL	1.1354 mL	2.2708 mL
50 mM	0.0454 mL	0.2271 mL	0.4542 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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