

Opitor-0

Chemical Properties

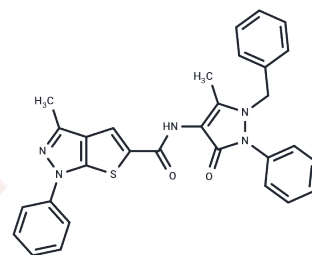
CAS No. :

Formula: C₃₀H₂₅N₅O₂S

Molecular Weight: 519.62

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	Opitor-0 is a highly selective OPA1 GTPase inhibitor with an IC ₅₀ of 3 μM. Opitor-0 disrupts the stability of OPA1 oligomers, triggering mitochondrial cristae remodeling and fragmentation, which leads to massive release of cytochrome c and subsequently induces apoptosis. In anticancer studies, Opitor-0 has been shown to exhibit synergistic effects when combined with the Bcl-2 inhibitor ABT-737 or Venetoclax.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 28.00 mg/mL (53.89 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9245 mL	9.6224 mL	19.2448 mL
5 mM	0.3849 mL	1.9245 mL	3.849 mL
10 mM	0.1924 mL	0.9622 mL	1.9245 mL
50 mM	0.0385 mL	0.1924 mL	0.3849 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.

Reference

Pellattiero A, et al. Small molecule OPA1 inhibitors amplify cytochrome c release and reverse cancer cells resistance to Bcl-2 inhibitors. Sci Adv. 2025;11(27):eadx4562.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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