

HP661

Chemical Properties

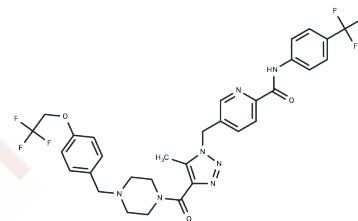
CAS No. :

Formula: C₃₁H₂₉F₆N₇O₃

Molecular Weight: 661.60

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	HP661, a selective inhibitor of mitochondrial complex I (NADH dehydrogenase), impedes complex I activity by 77.6% at 1 μ M, demonstrating lesser inhibition towards complex III (28.1%) and no inhibitory effects on complexes II and IV. It notably decreases the viability of human lung cancer cells—H460, NCI H441, and trametinib-resistant A549 cells (IC ₅₀ s = 10.6, 29.7, and 15.1 nM, respectively)—which exhibit high levels of oxidative phosphorylation. In contrast, it shows minimal activity against NCI H358 lung cancer cells and non-cancerous HPNE and MRC-5 cells (IC ₅₀ s = >10,000 nM for both), which have lower oxidative phosphorylation levels. Furthermore, in an H460 mouse xenograft model, HP661 at a dose of 30 mg/kg twice daily significantly reduces tumor volume and enhances the tumor-growth inhibitory effects of trametinib.
Targets(IC ₅₀)	Others

Solubility Information

Solubility	Methanol: Soluble Ethanol: Soluble Chloroform: Soluble (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.5115 mL	7.5574 mL	15.1149 mL
5 mM	0.3023 mL	1.5115 mL	3.023 mL
10 mM	0.1511 mL	0.7557 mL	1.5115 mL
50 mM	0.0302 mL	0.1511 mL	0.3023 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

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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