

IPI-3063

Chemical Properties

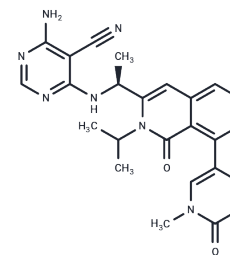
CAS No. : 1425043-73-7

Formula: C₂₅H₂₅N₇O₂

Molecular Weight: 455.51

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	IPI-3063 is an effective and selective inhibitor of PI3K p110δ (IC ₅₀ : 2.5 ± 1.2 nM).
Targets(IC ₅₀)	PI3K
In vitro	IPI-3063 is a p110δ selective compound with an IC ₅₀ =0.17nM in p110δ-specific cell-based assays and cellular IC ₅₀ values for the other class I PI3K isoforms are at least 1,000-fold higher (IC ₅₀ =1901±1318 nM for p110α, IC ₅₀ =102.8±35.7 nM for p110β, IC ₅₀ =418.8±117.2 nM for p110γ). IPI-3063 is very effective in reducing p-AKT (significant effect at 17nM) and it also decreases p-ERK1/2 with a significant effect at 107nM. IPI-3063 is very effective, achieving a significant decrease in B cell survival when present at 107nM and it also inhibits p110α, p110β, and p110γ (IC ₅₀ s: 1171±533 nM, 1508±624 nM, and 2187±1529 nM, respectively). IPI-3063 effectively decreases mouse B cell proliferation, survival, and plasmablast differentiation while increasing antibody class switching to IgG1.

Solubility Information

Solubility	DMSO: 83.33 mg/mL (182.94 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	2.1953 mL	10.9767 mL	21.9534 mL
5 mM	0.4391 mL	2.1953 mL	4.3907 mL
10 mM	0.2195 mL	1.0977 mL	2.1953 mL
50 mM	0.0439 mL	0.2195 mL	0.4391 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

Chiu H, et al. The Selective Phosphoinoside-3-Kinase p110 δ Inhibitor IPI-3063 Potently Suppresses B Cell Survival, Proliferation, and Differentiation. *Front Immunol.* 2017 Jun 30;8:747.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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