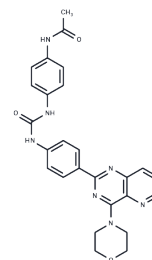


PI3K α -IN-1

Chemical Properties

CAS No. :	2100855-80-7
Formula:	C ₂₆ H ₂₅ N ₇ O ₃
Molecular Weight:	483.52
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	PI3K α -IN-1 is an inhibitor specifically targeting PI3K α with an IC ₅₀ of less than 0.5 nM, and it also inhibits mTOR with an IC ₅₀ of 104 nM [1].
Targets(IC ₅₀)	PI3K
In vitro	PI3K α -IN-1 demonstrates significant stability in mouse liver microsome assays, with a half-life (t _{1/2}) exceeding 60 minutes [1]. This compound induces cytotoxicity in MDC7 cells over a 48-hour period, with an IC ₅₀ value of approximately 170 nM [1]. Additionally, PI3K α -IN-1 (in concentrations ranging from 15-250 nM) inhibits phosphorylation of 4EBP, P70S6, and 473AKT in MCF7 cells [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.0682 mL	10.3408 mL	20.6817 mL
5 mM	0.4136 mL	2.0682 mL	4.1363 mL
10 mM	0.2068 mL	1.0341 mL	2.0682 mL
50 mM	0.0414 mL	0.2068 mL	0.4136 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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