

CDK4/6-IN-7

Chemical Properties

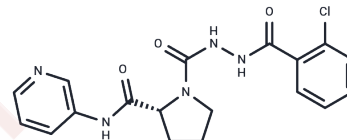
CAS No. : 2649120-20-5

Formula: C₁₈H₁₈ClN₅O₃

Molecular Weight: 387.82

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	CDK4/6-IN-7, a highly potent and selective orally active inhibitor of CDK4/6, demonstrates impressive inhibition activity with IC ₅₀ values of 1.58 nM and 4.09 nM respectively. This compound is particularly valuable for breast cancer research [1].
Targets(IC ₅₀)	Others,CDK
In vitro	CDK4/6-IN-7 (compound 7c) impairs MCF-7 cell viability with an IC ₅₀ value of 0.92 μM after 48 hours of exposure to concentrations ranging from 0.1 to 656.1 μM, as observed in a cell proliferation assay [1].
In vivo	CDK4/6-IN-7 (compound 7c), when administered orally at 50 mg/kg daily for seven days, significantly inhibits tumor growth with a 57.68% inhibition rate in MCF-7 tumor-bearing female nude mice (aged 5 weeks), demonstrating both efficacy and tolerability.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5785 mL	12.8926 mL	25.7852 mL
5 mM	0.5157 mL	2.5785 mL	5.157 mL
10 mM	0.2579 mL	1.2893 mL	2.5785 mL
50 mM	0.0516 mL	0.2579 mL	0.5157 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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