

YKL-5-124 TFA (1957203-01-8 free base)

Chemical Properties

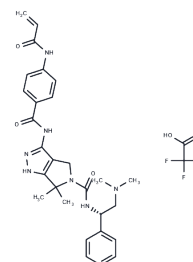
CAS No. :

Formula: C30H34F3N7O5

Molecular Weight: 629.63

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	YKL-5-124 TFA is a potent, selective, irreversible and covalent inhibitor of CDK7 (IC50s of 53.5 nM and 9.7 nM for CDK7 and CDK7/Mat1/CycH, respectively).
Targets(IC50)	Others
In vitro	In G1- and G2/M-phase cells and a corresponding loss of S-phase cells, YKL-5-124 (0-2000 nM; 72 hours; HAP1 cells) treatment causes a dose-dependent increase. YKL-5-124 (0-2000 nM; 24 hours; HAP1 WT cells) treatment inhibits CDK1 T-loop phosphorylation, and to a lesser extent CDK2 T-loop phosphorylation in a concentration-dependent fashion.

Solubility Information

Solubility	DMSO: 100 mg/mL (158.82 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	1.5882 mL	7.9412 mL	15.8823 mL
5 mM	0.3176 mL	1.5882 mL	3.1765 mL
10 mM	0.1588 mL	0.7941 mL	1.5882 mL
50 mM	0.0318 mL	0.1588 mL	0.3176 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

Olson CM, et al. Development of a Selective CDK7 Covalent Inhibitor Reveals Predominant Cell-Cycle Phenotype. Cell Chem Biol. 2019 Jun 20;26(6):792-803.e10.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481