

PF-06873600

## Chemical Properties

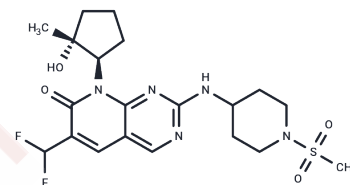
CAS No. : 2185857-97-8

Formula: C<sub>20</sub>H<sub>27</sub>F<sub>2</sub>N<sub>5</sub>O<sub>4</sub>S

Molecular Weight: 471.52

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	PF-06873600, a selective and orally bioavailable cyclin-dependent kinase (CDK) inhibitor (CDK2, CDK4, and CDK6 with Ki values of 0.09 nM, 0.13 nM, and 0.16 nM, respectively), has potential antineoplastic activity.
Targets(IC50)	CDK
In vitro	PF-06873600 selectively targets, binds to and inhibits the activity of CDKs. Inhibition of these kinases leads to cell cycle arrest, induction of apoptosis and inhibition of tumor cell proliferation. CDKs, ATP-dependent serine/threonine kinases that are important regulators of cell cycle progression and cellular proliferation, are frequently overexpressed in tumor cells.

## Solubility Information

Solubility	DMSO: 150 mg/mL (318.12 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (21.21 mM), Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (21.21 mM), Suspension. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.1208 mL	10.604 mL	21.208 mL
5 mM	0.4242 mL	2.1208 mL	4.2416 mL
10 mM	0.2121 mL	1.0604 mL	2.1208 mL
50 mM	0.0424 mL	0.2121 mL	0.4242 mL

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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

NCI Drug Dictionary

**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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