

PF15

## Chemical Properties

CAS No. : 2892631-70-6

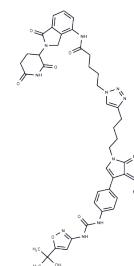
Formula: C44H49N13O6

Molecular Weight: 855.94

Keep away from direct sunlight

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	PF15, a selective FLT3-ITD degrader, serves as a PROTAC (proteolysis targeting chimera) tethering ligands for FLT3 kinase and CRBN. It exhibits a degradation concentration 50 (DC50) of 76.7 nM and notably impedes the proliferation of FLT3-ITD-positive cells. PF15 also reduces phosphorylation levels of FLT3 and STAT5 and demonstrates efficacy in inhibiting tumor growth in mouse models, suggesting potential applications in leukemia research [1].
Targets(IC50)	FLT,PROTACs
In vitro	PF15, at concentrations ranging from 0-1000 nM over 72 hours, demonstrates significant anti-proliferative effects against MV4-11, Molm-13, and BaF3 cells harboring ITD, ITD-D835V, and ITD-F691L mutations, respectively [1]. At increasing doses (1-1000 nM for 6 hours), PF15 markedly promotes FLT3 degradation, with the 10-1000 nM concentrations for 6 hours also substantially inhibiting FLT3 and STAT5 phosphorylation in BaF3-FLT3-ITD cells [1]. Further, PF15 significantly reduces FLT3 and STAT5 phosphorylation, particularly at 100 nM for 6 hours, in both BaF3-FLT3-ITD-D835V and BaF3-FLT3-ITD-F691L cells [1]. Time-dependent FLT3 degradation is observed with 100 nM PF15 treatment over 1 to 24 hours [1]. Additionally, PF15 induces FLT3 degradation across a broad concentration range (15.6-2000 nM for 24 hours), achieving a DC50 of 76.7 nM [1].
In vivo	PF15 administered intraperitoneally at dosages of 10 mg/kg and 20 mg/kg once daily for 10 days exhibited substantial tumor growth inhibition, with a 58.4% inhibition rate at the lower dose and a higher rate at the increased dose [1]. When given at 20 mg/kg twice daily or 40 mg/kg once daily over 12 days, PF15 extended the median survival time to 15 days compared to 11 days in the negative control group in a BaF3-FLT3-ITD in situ model [1].

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.1683 mL	5.8415 mL	11.6831 mL
5 mM	0.2337 mL	1.1683 mL	2.3366 mL
10 mM	0.1168 mL	0.5842 mL	1.1683 mL
50 mM	0.0234 mL	0.1168 mL	0.2337 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.

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