

PPM-3

## Chemical Properties

CAS No. :

Formula: C54H69N11O6S

Molecular Weight: 1000.26

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	PPM-3, a selective PROTAC ERK5 degrader, exhibits a potent inhibitory concentration (IC 50) of 62.4 nM. While not directly inhibiting tumor cell growth, PPM-3 affects tumor progression through influencing macrophage differentiation [1].
Targets(IC50)	ERK,PROTACs
In vitro	PPM-3, applied at a concentration of 200 nM for 0-72 hours to A375 cells, initiates ERK5 degradation within 2-4 hours, with peak degradation observed at 12 hours and sustained for at least 72 hours [1]. Additionally, PPM-3, ranging from 0-1 μM for 12 hours, exhibits ERK5 degradation activity in various cancer cell lines—H1975, HepG2, MDA-MB-231, PC-3, HCT116, and A375—with respective DC50 values of 11.5±2.5, 13.7±8.2, 22.7±13.3, 23.5±10.3, 5.6±1.9, and 41.4±22.3 nM [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.9997 mL	4.9987 mL	9.9974 mL
5 mM	0.1999 mL	0.9997 mL	1.9995 mL
10 mM	0.100 mL	0.4999 mL	0.9997 mL
50 mM	0.020 mL	0.100 mL	0.1999 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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