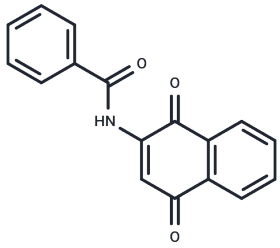
Data Sheet (Cat.No.T21693)

TargetMol

PPM-18

Chemical Properties



CAS No. : 65240-86-0

Formula: C17H11NO3

Molecular Weight: 277.27

Storage: Store at low temperature
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-18 (NSC 73233) is a potent anti-inflammatory agent that inhibits the expression of nitric oxide synthase, and also acts as an effective inhibitor of iNOS expression by blocking the binding of NF-κB to the promoter[1]. As a vitamin K analog, this compound can also induce autophagy and apoptosis in bladder cancer cells through the ROS and AMPK signaling pathways[2].
Targets(IC50)	NO Synthase

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6066 mL	18.033 mL	36.0659 mL
5 mM	0.7213 mL	3.6066 mL	7.2132 mL
10 mM	0.3607 mL	1.8033 mL	3.6066 mL
50 mM	0.0721 mL	0.3607 mL	0.7213 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

S M Yu, et al. Inhibition of nitric oxide synthase expression by PPM-18, a novel anti-inflammatory agent, in vitro and in vivo. Biochem J. 1997 Dec 1;328 (Pt 2)(Pt 2):363-9.

Huiai Lu, et al. PPM-18, an Analog of Vitamin K, Induces Autophagy and Apoptosis in Bladder Cancer Cells Through ROS and AMPK Signaling Pathways. Front Pharmacol. 2021 Jul 9;12:684915.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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