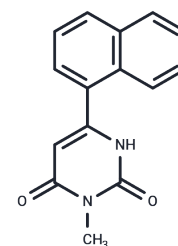


## MNK8

## Chemical Properties

CAS No. :	2055078-49-2
Formula:	C <sub>15</sub> H <sub>12</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	252.27
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	MNK8 (3-methyl-6-(naphthalen-1-yl)pyrimidine-2,4(1H,3H)-dione) is a potent STAT3 inhibitor that reduces the ability of STAT3 to bind to DNA and also has a good growth inhibition effect on liver cancer cells [1].
Targets(IC50)	Apoptosis,Bcl-2 Family,STAT,Survivin
In vitro	MNK8, at a concentration of 50 μM over a period of 0 to 48 hours, resulted in a time-dependent increase in Sub-G1 cells and concurrently led to a reduction in the levels of antiapoptotic proteins, namely Bcl-2, survivin, and cyclin D1 [1].

## Solubility Information

Solubility	DMSO: 55 mg/mL (218.02 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	3.964 mL	19.820 mL	39.6401 mL
5 mM	0.7928 mL	3.964 mL	7.928 mL
10 mM	0.3964 mL	1.982 mL	3.964 mL
50 mM	0.0793 mL	0.3964 mL	0.7928 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

Ayyiliath M Sajith, et al. Pyrimidine-2,4-dione targets STAT3 signaling pathway to induce cytotoxicity in hepatocellular carcinoma cells. Bioorg Med Chem Lett. 2021 Oct 15;50:128332.

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