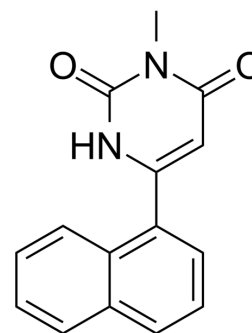


MNK8

Cat. No.:	HY-147187
CAS No.:	2055078-49-2
Molecular Formula:	C ₁₅ H ₁₂ N ₂ O ₂
Molecular Weight:	252.27
Target:	STAT; Apoptosis; Bcl-2 Family; Survivin
Pathway:	JAK/STAT Signaling; Stem Cell/Wnt; Apoptosis
Storage:	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 41.67 mg/mL (165.18 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.9640 mL	19.8200 mL	39.6401 mL
	5 mM	0.7928 mL	3.9640 mL	7.9280 mL
	10 mM	0.3964 mL	1.9820 mL	3.9640 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

MNK8 is a potent STAT3 (signal transducer and activator of transcription 3) inhibitor. MNK8 inhibits STAT3 activation and reduced its DNA binding ability. MNK8 shows good growth inhibition against hepatocellular carcinoma (HCC) cells. MNK8 induces apoptosis in HCC cells. MNK8 reduces prosurvival proteins expression and migration/invasion of HCC cells^[1].

IC₅₀ & Target

STAT3 Bcl-2

In Vitro

MNK8 (50 μM, 0-48 h) increases Sub-G1 cells in a time-dependent fashion, and decreases the expression of antiapoptotic proteins such as Bcl-2, survivin, and cyclin D1^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sajith AM, 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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