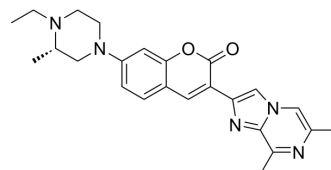


SMN-C2

Cat. No.:	HY-124648		
CAS No.:	1446311-56-3		
Molecular Formula:	C ₂₄ H ₂₇ N ₅ O ₂		
Molecular Weight:	417.5		
Target:	DNA/RNA Synthesis		
Pathway:	Cell Cycle/DNA Damage		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 7.14 mg/mL (17.10 mM; ultrasonic and warming and heat to 80°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.3952 mL	11.9760 mL	23.9521 mL
5 mM	0.4790 mL	2.3952 mL	4.7904 mL
10 mM	0.2395 mL	1.1976 mL	2.3952 mL

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

BIOLOGICAL ACTIVITY

Description

SMN-C2, an analog of RG-7916, is a selective modulator of SMN2 gene splicing that acts by binding SMN2 pre-mRNA, thereby increasing far upstream element binding protein 1 (FUBP1) and KH-spliced RNA binding Protein affinity regulator protein (KHSRP) to the SMN2 pre-mRNA complex. SMN-C2 can be used in spinal muscular atrophy (SMA) research^[1].

In Vivo

SMN-C2 (20 mg/kg, daily) can replace SMN2 splicing and divert FL mRNA, resulting in increased SMN protein levels in the brain and spinal cord of mice^[2].

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

REFERENCES

[1]. Jingxin Wang, et al. Mechanistic studies of a small-molecule modulator of SMN2 splicing. Proc Natl Acad Sci U S A. 2018 May 15;115(20):E4604-E4612.

[2]. Nikolai A Naryshkin, et al. Motor neuron disease. SMN2 splicing modifiers improve motor function and longevity in mice with spinal muscular atrophy. Science. 2014

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA