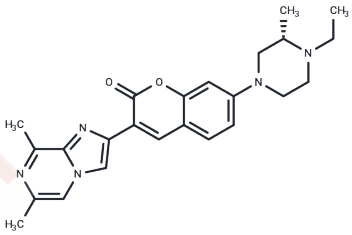
Data Sheet (Cat.No.T73475)

TargetMol

SMN-C2

Chemical Properties



CAS No. : 1446311-56-3

Formula: C24H27N5O2

Molecular Weight: 417.5

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	SMN-C2 is a selective regulator of SMN2 gene splicing, a risdiplam analogue, a selective RNA-binding ligand that regulates pre-mRNA splicing and acts by binding to SMN2 pre-mRNA.SMN-C2 has the potential to be used in the study of spinal muscular atrophy (SMA).
Targets(IC50)	DNA/RNA Synthesis
In vitro	SMN-C2 (20 mg/kg/day) used in Δ7 mice (a severe model of SMA) can substitute SMN2 splicing, causing an increase in SMN protein levels in the brains and spinal cords of mice, improving mouse motor function, and extending mouse lifespan[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3952 mL	11.976 mL	23.9521 mL
5 mM	0.479 mL	2.3952 mL	4.7904 mL
10 mM	0.2395 mL	1.1976 mL	2.3952 mL
50 mM	0.0479 mL	0.2395 mL	0.479 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

Nikolai A Naryshkin, et al. Motor neuron disease. SMN2 splicing modifiers improve motor function and longevity in mice with spinal muscular atrophy. Science. 2014 Aug 8;345(6197):688-93.

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.

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