

Branaplam

Chemical Properties

CAS No. : 1562338-42-4

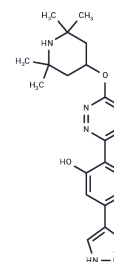
Formula: C₂₂H₂₇N₅O₂

Molecular Weight: 393.48

Store at low temperature

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	Branaplam (LMI 070) is a highly potent, selective and orally active small molecule SMN2 splicing modulator.
Targets(IC50)	DNA/RNA Synthesis, Potassium Channel
In vivo	To evaluate the efficacy of NVS-SM1, we used the SMNΔ7 mouse model, which displays a severe phenotype. In the specific colony used for this study, death typically occurs before postnatal day 15. We were pleased to observe that, in addition to a dose-dependent elevation of SMN protein in the brain, oral administration of NVS-SM1 improved body weight and extended lifespan, with 50% of the animals in the 1 mg per kg body weight group and 62% of animals in the 3 mg per kg body weight group showing increased survival.

Solubility Information

Solubility	DMSO: 0.66 mg/mL (1.68 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5414 mL	12.7071 mL	25.4143 mL
5 mM	0.5083 mL	2.5414 mL	5.0829 mL
10 mM	0.2541 mL	1.2707 mL	2.5414 mL
50 mM	0.0508 mL	0.2541 mL	0.5083 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

Palacino J, et al. SMN2 splice modulators enhance U1-pre-mRNA association and rescue SMA mice. Nat Chem Biol. 2015 Jul;11(7):511-517.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481