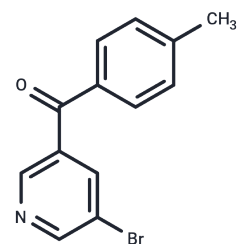


Cuspin-1

Chemical Properties

CAS No. :	337932-29-3
Formula:	C ₁₃ H ₁₀ BrNO
Molecular Weight:	276.13
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	The Survival of Motor Neurons (SMN) protein participates in RNA splicing. Decreases in SMN, typically a consequence of defects in the smn1 gene, result in the death of motor neurons and lead to the neurodegenerative disease, spinal muscular atrophy (SMA). Cuspin-1 is a small molecule upregulator of SMN that has been shown in vitro to increase levels of SMN in SMA patient fibroblasts by 50% at 18 μ M. Its mechanism of action is thought to involve increased phosphorylation of ERK to initiate Ras-Raf-MEK signaling, which results in an increased rate of SMN translation.
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Solubility Information

Solubility	DMSO: 16 mg/mL Ethanol: 1 mg/mL DMF: 25 mg/mL DMF:PBS(pH 7.2)(1:1): 0.5 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.6215 mL	18.1074 mL	36.2148 mL
5 mM	0.7243 mL	3.6215 mL	7.243 mL
10 mM	0.3621 mL	1.8107 mL	3.6215 mL
50 mM	0.0724 mL	0.3621 mL	0.7243 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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

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