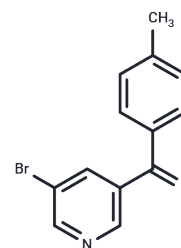


Cuspin-1

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 337932-29-3 |
| Formula: | C ₁₃ H ₁₀ BrNO |
| Molecular Weight: | 276.13 |
| 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 | 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 μM. 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. |
| Targets(IC50) | ERK,Others |

Solubility Information

| | |
|------------|---|
| Solubility | DMSO: 16 mg/mL (57.94 mM),Sonication is recommended. Ethanol: 1 mg/mL (3.62 mM),Sonication is recommended. DMF: 25 mg/mL (90.54 mM),Sonication is recommended. DMF:PBS(pH 7.2)(1:1): 0.5 mg/mL (1.81 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

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.

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.

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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