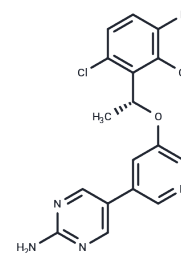


SHIP2-IN-1

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 2252247-80-4 |
| Formula: | C17H13Cl2FN4O |
| Molecular Weight: | 379.22 |
| 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 | SHIP2-IN-1 is a potent SHIP2 inhibitor (IC50: 2 µM) used in Alzheimer's disease research. |
| Targets(IC50) | Phosphatase |
| In vitro | PI(3,4)P2 production in HT22 cells significantly inhibited by SHIP2-IN-1 (10 µM) . |

Solubility Information

| | |
|---------------------|--|
| Solubility | DMSO: 90 mg/mL (237.33 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble) |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (8.7 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 2.637 mL | 13.185 mL | 26.3699 mL |
| 5 mM | 0.5274 mL | 2.637 mL | 5.274 mL |
| 10 mM | 0.2637 mL | 1.3185 mL | 2.637 mL |
| 50 mM | 0.0527 mL | 0.2637 mL | 0.5274 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

Lim JW, et al. Identification of crizotinib derivatives as potent SHIP2 inhibitors for the treatment of Alzheimer's disease. Eur J Med Chem. 2018 Sep 5;157:405-422.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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