

(Iso)-TRPV4 antagonist 5

Chemical Properties

| | |
|-------------------|--|
| CAS No. : | 3026084-13-6 |
| Formula: | C ₂₅ H ₂₇ FN ₆ O ₃ |
| Molecular Weight: | 478.52 |
| Storage: | Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small> |

Biological Description

| | |
|-------------|--|
| Description | (Iso)-TRPV4 antagonist 5 are potent, selective, and orally active transient receptor potential vanilloid 4 (TRPV4) channel blockers for the treatment of pulmonary edema and respiratory diseases. This compound was discovered through optimization of a spirocarbamate lead designed to reduce interstitial lung fluid. Research on its derivatives and related compounds primarily focuses on improving metabolic stability, reducing lipophilicity to enhance clearance, and increasing potency. |
|-------------|--|

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.0898 mL | 10.4489 mL | 20.8978 mL |
| 5 mM | 0.418 mL | 2.0898 mL | 4.1796 mL |
| 10 mM | 0.209 mL | 1.0449 mL | 2.0898 mL |
| 50 mM | 0.0418 mL | 0.209 mL | 0.418 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

Brooks CA, et al. Discovery of GSK2798745: A Clinical Candidate for Inhibition of Transient Receptor Potential Vanilloid 4 (TRPV4). ACS Med Chem Lett. 2019 Jul 15;10(8):1228-1233.

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