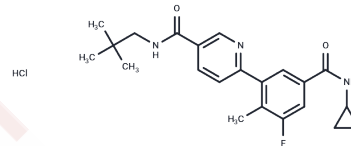


Losmapimod hydrochloride

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 1246654-84-1 |
| Formula: | C ₂₂ H ₂₇ ClFN ₃ O ₂ |
| Molecular Weight: | 419.92 |
| 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 | Losmapimod hydrochloride (GW856553X) is an orally active, potent, and highly selective p38 alpha/beta MAPK inhibitor (IC ₅₀ = 0.8 nM). It greatly reduces the release of pro-inflammatory cytokines, including TNF-alpha and IL-6, by blocking inflammatory signaling cascades, showing remarkable efficacy in COPD and severe cardiovascular inflammation models. |
| Targets(IC ₅₀) | p38 MAPK |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|-----------|------------|
| 1 mM | 2.3814 mL | 11.907 mL | 23.8141 mL |
| 5 mM | 0.4763 mL | 2.3814 mL | 4.7628 mL |
| 10 mM | 0.2381 mL | 1.1907 mL | 2.3814 mL |
| 50 mM | 0.0476 mL | 0.2381 mL | 0.4763 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

Horton J, et al. Structural Studies of DNMT1-DNA Complexes with a Reversible Series of Dicyanopyridine Containing Selective, Non-Nucleoside Inhibitors[J]. Foundations of Crystallography, 2022, 78: a246.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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