

S-Y048

Chemical Properties

CAS No. : 2020058-38-0

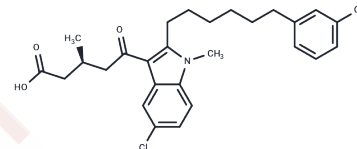
Formula: C₂₇H₃₁Cl₂N₃O₃

Molecular Weight: 488.45

Keep away from moisture, Store at low temperature

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

| | |
|---------------|--|
| Description | S-Y048 is an Oxoeicosanoid (OXE) receptor antagonist that inhibits allergen-induced eosinophil infiltration into the skin of experimentally sensitized rhesus monkeys to house dust mites and inhibits lung inflammation caused by aerosolized allergen challenge. S-Y048 can be used to study asthma and other eosinophilic diseases. |
| Targets(IC50) | Others |
| In vitro | S-Y048 is a highly potent inhibitor of 5-oxo-EETE-induced activation of rhesus monkey eosinophils in vitro and has a half-life in plasma of about 6 hr after oral administration. S-Y048 significantly inhibited eosinophil infiltration into the skin in response to both intradermally administered 5-oxo-EETE and HDM. [2] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.0473 mL | 10.2365 mL | 20.4729 mL |
| 5 mM | 0.4095 mL | 2.0473 mL | 4.0946 mL |
| 10 mM | 0.2047 mL | 1.0236 mL | 2.0473 mL |
| 50 mM | 0.0409 mL | 0.2047 mL | 0.4095 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

Cossette C, et al. Targeting the OXE receptor with a selective antagonist inhibits allergen-induced pulmonary inflammation in non-human primates. Br J Pharmacol. 2022 Jan;179(2):322-336.

Miller LA, et al. Inhibition of allergen-induced dermal eosinophilia by an oxoeicosanoid receptor antagonist in non-human primates. Br J Pharmacol. 2020 Jan;177(2):360-371.

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