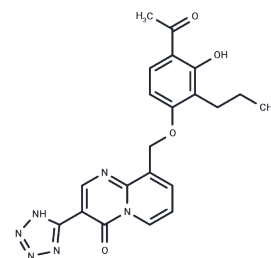


AS-35

Chemical Properties

| | |
|-------------------|---|
| CAS No. : | 108427-72-1 |
| Formula: | C ₂₁ H ₂₀ N ₆ O ₄ |
| Molecular Weight: | 420.42 |
| 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 | AS-35 is an orally effective, potent, and selective antagonist of leukotrienes, antagonizing LTC ₄ -, LTD ₄ -, and LTE ₄ -induced ileum contractions with IC ₅₀ values of 8 nM, 4 nM, and 3 nM, respectively. It exhibits antiallergic activities. |
| Targets(IC ₅₀) | Leukotriene Receptor |
| In vitro | In the trachea, the drug also antagonized LTD ₄ - and LTE ₄ -induced contraction with IC ₅₀ values of 10 nM and 20 nM, respectively. In isolated guinea pig preparations, AS-35 antagonized LTC ₄ , LTD ₄ , and LTE ₄ -induced ileal contractions with IC ₅₀ values of 8 nM, 4 nM, and 3 nM, respectively. AS-35 does not antagonize LTC ₄ -induced tracheal constriction in the presence of L-serine borate [1]. |
| In vivo | AS-35 (p.o.) inhibits LTD ₄ -induced increase in vascular permeability in guinea pig skin [1]. Oral administration of AS-35 also antagonized LTD ₄ as well as antigen-induced LT-mediated bronchoconstriction. AS-35 (0.0375 to 0.3 mg/kg, i.v.) dose-dependently antagonized bronchoconstriction induced by intravenous administration of LTC ₄ and LTD ₄ but not histamine-induced bronchoconstriction in anesthetized guinea pigs.[1] |

Preparing Stock Solutions

| | 1mg | 5mg | 10mg |
|-------|-----------|------------|------------|
| 1 mM | 2.3786 mL | 11.8929 mL | 23.7857 mL |
| 5 mM | 0.4757 mL | 2.3786 mL | 4.7571 mL |
| 10 mM | 0.2379 mL | 1.1893 mL | 2.3786 mL |
| 50 mM | 0.0476 mL | 0.2379 mL | 0.4757 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

Kasai H, et al. Peptide leukotriene antagonistic activity of AS-35, a new antiallergic drug. Jpn J Pharmacol. 1992 Apr;58(4):347-55.

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