
Product Data Sheet

Product Name: AS-35
Cat. No.: GC31774

Chemical Properties

Cas. No. 108427-72-1

SMILES O=C1C(C2=NN=NN2)=CN=C3N1C=CC=C3COC4=CC=C(C(C)=O)C(O)=C4CCC

Formula $C_{21}H_{20}N_6O_4$ M.Wt 420.42

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure

Background

AS-35 is an orally effective, potent and selective antagonist of leukotrienes, antagonizes LTC₄-, LTD₄ and LTE₄-induced contractions of the ileum with IC₅₀ values of 8 nM, 4 nM and 3 nM, respectively, and has antiallergic activities.

In isolated guinea pig preparations, AS-35 antagonizes LTC₄-, LTD₄ and LTE₄-induced contractions of the ileum with IC₅₀ values of 8 nM, 4 nM and 3 nM, respectively. In the trachea, the agent also antagonizes LTD₄ and LTE₄-induced contractions with IC₅₀ values of 10 nM and 20 nM, respectively. However, AS-35 does not antagonize LTC₄-induced tracheal contraction in the presence of L-serine borate[1].

AS-35 (0.0375 to 0.3 mg/kg, i.v.) dose-dependently antagonizes bronchoconstriction induced by i.v.-injection of LTC₄ and LTD₄ in anesthetized guinea pigs, but does not inhibit histamine-induced bronchoconstriction. Oral administration of AS-35 also antagonizes LTD₄ as well as antigen-induced LT-mediated bronchoconstriction. AS-35 (p.o.) inhibits LTD₄-induced increase in the cutaneous vascular permeability of guinea pig[1].

[1]. Kasai H, et al. Peptide leukotriene antagonistic activity of AS-35, a new antiallergic

Caution: Product has not been fully validated for medical applications. For research use only.

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drug. Jpn J Pharmacol. 1992 Apr;58(4):347-55.

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