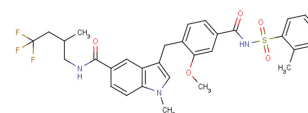


LTD4 antagonist 1

Chemical Properties

CAS No.:	136564-67-5
Formula:	C ₃₁ H ₃₂ F ₃ N ₃ O ₅ S
Molecular Weight:	615.66
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	LTD4 antagonist 1 is a potent and orally active antagonist of leukotriene D4 (LTD4; Ki: 0.57 nM).
Targets(IC ₅₀)	LTD4: 0.57 nM (ki)
In vitro	LTD4 antagonist 1 (Compound 38b) shows a Ki of 0.57 nM for the displacement of [3H]LTD4 on guinea pig lung membranes, a pKB of 9.93 versus LTE4 on guinea pig trachea.
In vivo	LTD4 antagonist 1 shows a ED50 (i.v.)/ED50 (p.o.) of 0.036 and 1.44 μmol/kg in LTD4-induced bronchoconstriction in guinea pigs.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.624 mL	8.121 mL	16.243 mL
5 mM	0.325 mL	1.624 mL	3.249 mL
10 mM	0.162 mL	0.812 mL	1.624 mL
50 mM	0.032 mL	0.162 mL	0.325 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Robert T. Jacobs, et al. Synthesis, Structure-Activity Relationships, and Pharmacological Evaluation of a Series of Fluorinated 3-Benzyl-5-Indolecarboxamides: Identification of 4-[[5-[[[(2R)-2-Methyl-4,4,4-trifluorobutyl]carbamoyl]-1-methylindol-3-yl]methyl]-3-methoxy-N-[(2-methylphenyl)sulfonyl]benzamide, a Potent, Orally Active Antagonist of Leukotrienes D4 and E4. *Journal of Medicinal Chemistry* (1994), 37(9), 1282-97.

Inhibitors · Natural Compounds · Compound Libraries

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