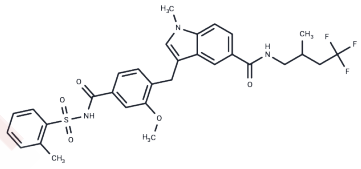
Data Sheet (Cat.No.T10057)

TargetMol

LTD4 antagonist 1

Chemical Properties



CAS No. : 136564-67-5

Formula: C31H32F3N3O5S

Molecular Weight: 615.66

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	LTD4 antagonist 1 is a potent and orally active antagonist of leukotriene D4 (LTD4; Ki: 0.57 nM).
Targets(IC50)	Others,Leukotriene Receptor
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.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6243 mL	8.1214 mL	16.2427 mL
5 mM	0.3249 mL	1.6243 mL	3.2485 mL
10 mM	0.1624 mL	0.8121 mL	1.6243 mL
50 mM	0.0325 mL	0.1624 mL	0.3249 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

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]-3methoxy-N-[(2-methylphenyl)sulfonyl]benzamide, a Potent, Orally Active Antagonist of Leukotrienes D4 and E4. Journal of Medicinal Chemistry (1994), 37(9), 1282-97.

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