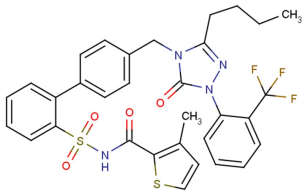
Data Sheet (Cat.No.T15681)

TargetMol
A DRUG SCREENING EXPERT

L-161982

Chemical Properties



CAS No.:	147776-06-5
Formula:	C32H29F3N4O4S2
Molecular Weight:	654.72
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	L-161982 is a selective EP4 receptor antagonist. L-161982 decreases collagen-induced arthritis in mice. L-161982 fully blocks PGE2-induced ERK phosphorylation and cell proliferation of HCA-7 cells.
Targets(IC_{50})	EP4: None
In vitro	L-161982 causes apoptosis, cell cycle arrest, and inhibits prostaglandin E2-induced proliferation in oral squamous carcinoma Tca8113 cells. L-161982 (10 μM; 1 hour) blocks PGE2-stimulated ERK phosphorylation in HCA-7 cells. L-161982 (10 μM; 2 hours) blocks PGE2-stimulated cell proliferation of HCA-7 cells [1,3].
In vivo	In CIA mice, L-161982 (5 mg/kg; i.p.; once per day for 2 weeks) decreases arthritis lesions and lesion progression [2].

Solubility Information

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

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.527 mL	7.637 mL	15.274 mL
5 mM	0.305 mL	1.527 mL	3.055 mL
10 mM	0.153 mL	0.764 mL	1.527 mL
50 mM	0.031 mL	0.153 mL	0.305 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 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Li X, et al.The EP4 antagonist, L-161,982, induces apoptosis, cell cycle arrest, and inhibits prostaglandin E2-induced proliferation in oral squamous carcinoma Tca8113 cells.J Oral Pathol Med. 2017 Nov;46(10):991-997.
2. Cherukuri DP, et al. The EP4 receptor antagonist, L-161,982, blocks prostaglandin E2-induced signal transduction and cell proliferation in HCA-7 colon cancer cells.Exp Cell Res. 2007 Aug 15;313(14):2969-79.
3. Chen L, et al. L161982 alleviates collagen-induced arthritis in mice by increasing Treg cells and down-regulating Interleukin-17 and monocyte-chemoattractant protein-1 levels.BMC Musculoskelet Disord. 2017 Nov 16;18(1):462.

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