

Safotibant

Chemical Properties

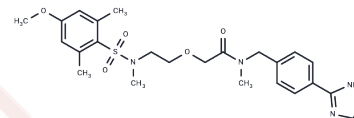
CAS No. : 633698-99-4

Formula: C₂₅H₃₄N₄O₅S

Molecular Weight: 502.63

Storage: Pure form: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	Safotibant (LF-22-0542) is a bradykinin B1 receptor antagonist with anti-inflammatory and analgesic activity for the topical treatment of diabetic macular edema.
Targets(IC50)	Bradykinin Receptor
In vivo	LF22-0542 (1% in saline; eye drop; twice a day for 7 days; diabetic rats) significantly reduced Retinal plasma extravasation, leukostasis, and mRNA levels of B(1)R, iNOS, COX-2, VEGF receptor type 2, IL-1 β and HIF-1 α to the control value level.[1]

Solubility Information

Solubility	DMSO: 50 mg/mL (99.48 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9895 mL	9.9477 mL	19.8954 mL
5 mM	0.3979 mL	1.9895 mL	3.9791 mL
10 mM	0.199 mL	0.9948 mL	1.9895 mL
50 mM	0.0398 mL	0.199 mL	0.3979 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

Pouliot M, et al. Ocular application of the kinin B1 receptor antagonist LF22-0542 inhibits retinal inflammation and oxidative stress in streptozotocin-diabetic rats. PLoS One. 2012;7(3):e33864.

Mahmudpour M, et al. COVID-19 cytokine storm: The anger of inflammation. Cytokine. 2020;133:155151.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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