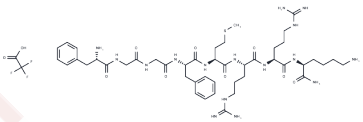
Data Sheet (Cat.No.T83709)

TargetMol

LIH383 TFA

Chemical Properties



CAS No. :

Formula: C45H72N16O8S.XCF3COOH

Molecular Weight: 997.22

Storage: Keep away from moisture
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	LIH383 is a peptide agonist specifically designed to activate the chemokine (C-X-C motif) receptor 7 (CXCR7), which functions both as a chemokine and an opioid peptide scavenger receptor. Demonstrating a high selectivity, LIH383 activates CXCR7 with an effective concentration (EC50) of 0.61 nM, showing significantly lower affinity towards μ-, δ-, and κ-opioid receptors, as well as the nociceptin opioid peptide (NOP) receptor, even at concentrations of 3 μM in β-arrestin recruitment assays. Furthermore, at a concentration of 3 μM, LIH383 effectively inhibits the uptake of opioid peptides by CXCR7, a process normally induced by dynorphin A, a non-selective opioid receptor agonist, in U87-ACKR3 cells.
Targets(IC50)	CXCR

Solubility Information

Solubility	DMSO: 10 mg/mL (10.03 mM),Sonication is recommended. DMF: 10 mg/mL (10.03 mM),Sonication is recommended. PBS pH 7.2: 10 mg/mL (10.03 mM),Sonication is recommended. Ethanol: 10 mg/mL (10.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0028 mL	5.0139 mL	10.0279 mL
5 mM	0.2006 mL	1.0028 mL	2.0056 mL
10 mM	0.1003 mL	0.5014 mL	1.0028 mL
50 mM	0.0201 mL	0.1003 mL	0.2006 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481