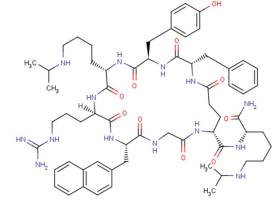


Data Sheet (Cat.No.T15805)

LY2510924

Chemical Properties

CAS No.: 1088715-84-7
 Formula: C62H88N14O10
 Molecular Weight: 1189.45
 Appearance: N/A
 Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	LY2510924 is an effective and selective CXCR4 antagonist. It blocks SDF-1 binding to CXCR4 (IC50: 0.079 nM).
Targets(IC50)	SDF-1 α -CXCR4: 49.5 pM (ki)
In vitro	LY2510924 inhibits SDF-1-induced cell migration (IC50: 0.26 nM) and inhibits SDF-1/CXCR4-mediated intracellular signaling, in human lymphoma U937 cells expressing endogenous CXCR4. LY2510924 also inhibits SDF-1-induced GTP binding (Kb: 0.38 nM). LY2510924 specifically blocks SDF-1 binding to CXCR4 (IC50: 0.079 nM). LY2510924 displays a concentration-dependent inhibition of SDF-1-stimulated phospho-ERK and phospho-Akt in tumor cells. Biochemical and cellular analyses reveal that LY2510924 has no apparent agonist activity[1]. LY2510924 chiefly inhibits the proliferation of AML cells with little induction of cell death and reduces protection against chemotherapy by stromal cells[2].

Solubility Information

Solubility	DMSO: 125 mg/mL (105.09 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.841 mL	4.204 mL	8.407 mL
5 mM	0.168 mL	0.841 mL	1.681 mL
10 mM	0.084 mL	0.42 mL	0.841 mL
50 mM	0.017 mL	0.084 mL	0.168 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

- Peng SB, et al. Identification of LY2510924, a novel cyclic peptide CXCR4 antagonist that exhibits antitumor activities in solid tumor and breast cancer metastatic models. *Mol Cancer Ther.* 2015 Feb;14(2):480-90.
- Cho BS, et al. Antileukemia activity of the novel peptidic CXCR4 antagonist LY2510924 as monotherapy and in combination with chemotherapy. *Blood.* 2015 Jul 9;126(2):222-32.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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