

LY223982

Chemical Properties

CAS No. : 117423-74-2

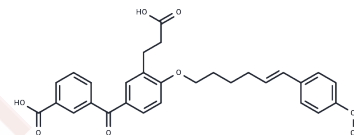
Formula: C30H30O7

Molecular Weight: 502.56

Store at low temperature

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	LY223982 is an effective and selective LTB4 (leukotriene B4 receptor) antagonist that inhibits LTB4-induced neutrophil activation and transient leukopenia.
Targets(IC50)	LTR,Leukotriene Receptor
In vitro	LY223982 is 189-fold more efficient than 35S-N-formyl-L-formyl-L-leucyl-L-phenylalanine (FMLP) in displacing [3H]LTB4 from its corresponding receptor on human neutrophils. The concentration that inhibits [3H]LTB4 displacement by 50% (IC50 value of 13.2 nM) is only 6.8-fold higher than that of non-radioactive LTB4.[1]
In vivo	LY223982 inhibits transient leukopenia induced by LTB4 (ED50, 3 mg/kg) in rabbits, but not by FMLP. LY223982 has no agonist activity in any test system.[1]

Solubility Information

Solubility	DMSO: 80 mg/mL (159.18 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (6.57 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9898 mL	9.9491 mL	19.8981 mL
5 mM	0.398 mL	1.9898 mL	3.9796 mL
10 mM	0.199 mL	0.9949 mL	1.9898 mL
50 mM	0.0398 mL	0.199 mL	0.398 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

Jackson WT, et al. Specific inhibition of leukotriene B₄-induced neutrophil activation by LY223982. *J Pharmacol Exp Ther.* 1992 Dec;263(3):1009-14.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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