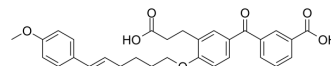


LY223982

Cat. No.:	HY-112737		
CAS No.:	117423-74-2		
Molecular Formula:	C ₃₀ H ₃₀ O ₇		
Molecular Weight:	502.56		
Target:	Leukotriene Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (198.98 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass			
			1 mg	5 mg	10 mg	
			1 mM	1.9898 mL	9.9491 mL	19.8981 mL
			5 mM	0.3980 mL	1.9898 mL	3.9796 mL
10 mM	0.1990 mL	0.9949 mL	1.9898 mL			
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (4.97 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.97 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	LY223982 is a potent and specific inhibitor of leukotriene B4 receptor, with an IC ₅₀ of 13.2 nM against [³ H]LTB ₄ binding to LTB ₄ receptor.
IC ₅₀ & Target	LTB ₄ 13.2 nM (IC ₅₀)
In Vitro	LY223982 is a potent and specific inhibitor of leukotriene B4 (LTB ₄) receptor, with an IC ₅₀ of 13.2 nM against [3H]LTB ₄ binding to LTB ₄ receptor. LY223982 is also a potent antagonist of the aggregation of human neutrophils by LTB ₄ (IC ₅₀ , 100 nM) ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

LY223982 inhibits transient leukopenia induced in rabbits with LTB₄ (ED₅₀, 3 mg/kg) but not with FMLP, and shows no agonist activity in any of the test systems^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

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

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA