

LY255283

## Chemical Properties

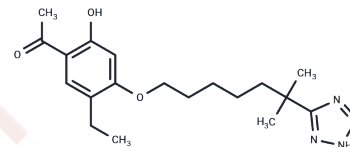
CAS No. : 117690-79-6

Formula: C<sub>19</sub>H<sub>28</sub>N<sub>4</sub>O<sub>3</sub>

Molecular Weight: 360.45

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	LY255283 is a specific antagonist of leukotriene B <sub>4</sub> (LTB <sub>4</sub> ) receptor. It inhibits the production of LTB <sub>4</sub> in human peripheral blood polymorphonuclear leukocytes (PMNL) and in monocytes activated by calcium ionophore A23187.
Targets(IC <sub>50</sub> )	Leukotriene Receptor
In vivo	All seven rats given only the vehicle died within 2 h of reperfusion, whereas rats treated with LY-255283 (3 or 10 mg/kg iv), a leukotriene B <sub>4</sub> (LTB <sub>4</sub> ) receptor antagonist given 10 min before reperfusion, exhibited significantly higher survival rates of 57% (4 out of 7) and 75% (6 out of 8), respectively, 2 h after reperfusion. Rats given 1 mg/kg of LY-255283 showed no significant improvement in survival. Splanchnic artery occlusion (SAO)-shock rats treated with LY-255283 (3 or 10 mg/kg) exhibited significantly attenuated accumulation of plasma free amino-nitrogenous compounds and of a myocardial depressant factor. Treatment with LY-255283 (10 mg/kg) markedly (P less than 0.01) ameliorated the deficits of endothelium-dependent relaxation of isolated superior mesenteric artery (SMA) rings in untreated SAO-shock rats. LY-255283 at 10 mg/kg significantly attenuated the increased myeloperoxidase activity in the intestinal tissue of SAO-shock rats[1].

## Solubility Information

Solubility	DMSO: 25 mg/mL (69.36 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	2.7743 mL	13.8715 mL	27.7431 mL
5 mM	0.5549 mL	2.7743 mL	5.5486 mL
10 mM	0.2774 mL	1.3872 mL	2.7743 mL
50 mM	0.0555 mL	0.2774 mL	0.5549 mL

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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

Karasawa A , Guo J P , Ma X L , et al. Protective actions of a leukotriene B4 antagonist in splanchnic ischemia and reperfusion in rats.[J]. Am J Physiol, 1991, 261(2):191-8.

M Uğur, M Melli. Inhibitory effect of LY 255283 on the synthesis of leukotriene B(4) and thromboxane A(2) in human peripheral blood polymorphonuclear leukocytes and monocytes. Mediators Inflamm. 1993;2(6):407-9.

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