

Ablukast

Chemical Properties

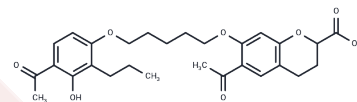
CAS No. : 96566-25-5

Formula: C₂₈H₃₄O₈

Molecular Weight: 498.56

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	Ablukast (Ro 23-3544) is a leukotriene receptor antagonist that functions as an anti-asthmatic.
Targets(IC50)	Leukotriene Receptor

Solubility Information

Solubility	DMSO: 60 mg/mL (120.35 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 2.5 mg/mL (5.01 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	2.0058 mL	10.0289 mL	20.0578 mL
5 mM	0.4012 mL	2.0058 mL	4.0116 mL
10 mM	0.2006 mL	1.0029 mL	2.0058 mL
50 mM	0.0401 mL	0.2006 mL	0.4012 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

- Rosenbach T, Csatò M, Czarnetzki BM. Studies on the role of leukotrienes in murine allergic and irritant contact dermatitis. *Br J Dermatol.* 1988 Jan;118(1):1-6.
- Sun J, Herman CA. Cardiovascular effects of N-methyl leukotriene C4, a nonmetabolizable leukotriene C4 analogue, and the antagonism of leukotriene-induced hypotension by Ro 23-3544, in the American bullfrog, *Rana catesbeiana*. *Can J Physiol Pharmacol.* 1995 Mar;73(3):383-9.
- Kumar S, et al. Studies of in vitro skin permeation and retention of a leukotriene antagonist from topical vehicles with a hairless guinea pig model. *J Pharm Sci.* 1992 Jul;81(7):631-4.
- Meigel W. Allergic contact dermatitis--description of a test model for topical anti-inflammatories with particular reference to the leukotriene-C4 antagonist Ro-23-3544. *Arch Dermatol Res.* 1991;283(4):278-9.

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