Ablukast

Cat. No.:	HY-118958		
CAS No.:	96566-25-5		
Molecular Formula:	$C_{28}H_{34}O_{8}$		
Molecular Weight:	498.56		
Target:	Leukotriene Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg	
	Preparing Stock Solutions	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	
	Please refer to the so	Please refer to the solubility information to select the appropriate solvent.				
n Vivo		t one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) g/mL (5.01 mM); Suspended solution; Need ultrasonic				
	one by one: 10% DMSO >> 90% cor g/mL (5.01 mM); Clear solution	n oil				

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Description	Ablukast (Ro 23-3544) is a specific and active leukotriene receptor antagonist. Ablukast effectively reduces LTC4- and antigen-induced bronchoconstriction ^{[1][2]} . Ablukast is LTD4 receptor antagonist ^[3] .
IC ₅₀ & Target	LTD ₄
In Vitro	Ablukast (Ro 23-3544) is tested for its efficacy in modulating dinitrofluorobenzene (DNFB)-induced allergic and croton oil- induced irritant contact dermatitis in mouse ears. Treatment shortly after elicitation of the dermatitis, and for up to 5 days thereafter, was moderately effective in suppressing DNFB-induced ear swelling in a dose-dependent fashion. Daily pre- treatment of the ears for 1 week causes a more marked reduction of DNFB-induced ear swelling during the first 48 h after elicitation ^[2] .

Product Data Sheet

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	Animal Model:	Female BALB/c mice ^[2]	
	Dosage:	Concentrations of 0.1 , 0.5 , 1.0 and 5.0 % of Ablukast	
	Administration:	Applied to one of the pretreated ears 1 h after elicitation and at 24 h intervals on the following 4 days; three times daily	
	Result:	Effectively reduced DNFB-induced ear swelling.	

REFERENCES

[1]. M O'Donnell, et al. Pharmacological profile of Ro 23-3544, a new aerosol active leukotriene receptor antagonist. Adv Prostaglandin Thromboxane Leukot Res. 1987;17A:512-8.

[2]. T Rosenbach, et al. Studies on the role of leukotrienes in murine allergic and irritant contact dermatitis. Br J Dermatol. 1988 Jan;118(1):1-6.

[3]. Hans-Michael Eggenweiler, et al. Pyrrolopyrimidines as phosphodiesterase VII inhibitors. US7498334B2.

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

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