RWJ 50271

Cat. No.:	HY-110086			
CAS No.:	162112-37-0			
Molecular Formula:	C ₁₈ H ₁₇ F ₃ N ₄ O ₂ S			
Molecular Weight:	410.41			
Target:	Integrin			
Pathway:	Cytoskeleton			
Storage:	Powder	-20°C	3 years	
		4°C	2 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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In Vitro	DMSO : 250 mg/mL (609.15 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg	
		1 mM	2.4366 mL	12.1829 mL	24.3659 mL	
		5 mM	0.4873 mL	2.4366 mL	4.8732 mL	
		10 mM	0.2437 mL	1.2183 mL	2.4366 mL	
	Please refer to the solubility information to select the appropriate solvent.					
In Vivo	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.07 mM); Clear solution Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.07 mM); Clear solution 					

Description	RWJ 50271 is an selective and orally active inhibitor of lymphocyte function-associated antigen-1/intercellular adhesion molecule-1(LFA-1/ICAM-1) interaction with an IC ₅₀ of 5.0 μM (HL60 cells). RWJ 50271 inhibits LFA-1/ICAM-1-mediated cell adhesion ^[1] .	
IC ₅₀ & Target	IC50: 5.0 μM (LFA-1/ICAM-1, HL60 cells) ^[1]	
In Vitro	RWJ 50271 inhibits adhesion of peripheral blood lymphocytes to plastic immobilized SICAM-1 ^[1] . RWJ 50271 inhibits both human and murine NK activity (IC ₅₀ =5.0 μM) in an LFA-1/ICAM-1-dependent natural killer [NK] cytotoxicity assay ^[1] . RWJ 50271 does not inhibit Mac-1/ICAM-1, E-selectidsialyl Lewis X or VLA-4/VCAM-1-mediated cell adhesion up to 20 μM	

Product Data Sheet

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	concentrations ^[1] . RWJ 50271 does not alt RWJ 50271 inhibits adh RWJ 50271 does not ex MCE has not independe	concentrations ^[1] . RWJ 50271 does not alter the LFA-1 expression levels on HL60 cells ^[1] . RWJ 50271 inhibits adhesion of peripheral blood lymphocytes to plastic immobilized SICAM-1 ^[1] . RWJ 50271 does not exhibit any toxic activity up to 100 μM concentrations ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
In Vivo	RWJ 50271 (50 mg/kg; p MCE has not independe	RWJ 50271 (50 mg/kg; p.o.) is effective in animal model of inflammation ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	Mice, the delayed-type hypersensitivity [DTH] reaction $model^{[1]}$	
	Dosage:	50 mg/kg	
	Administration:	Oral administration	
	Result:	Significantly reduced foot pad swelling (>50%) 48 h after the challenge.	

REFERENCES

[1]. Sanfilippo PJ, et al. Novel thiazole based heterocycles as inhibitors of LFA-1/ICAM-1 mediated cell adhesion. J Med Chem. 1995 Mar 31;38(7):1057-9.

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