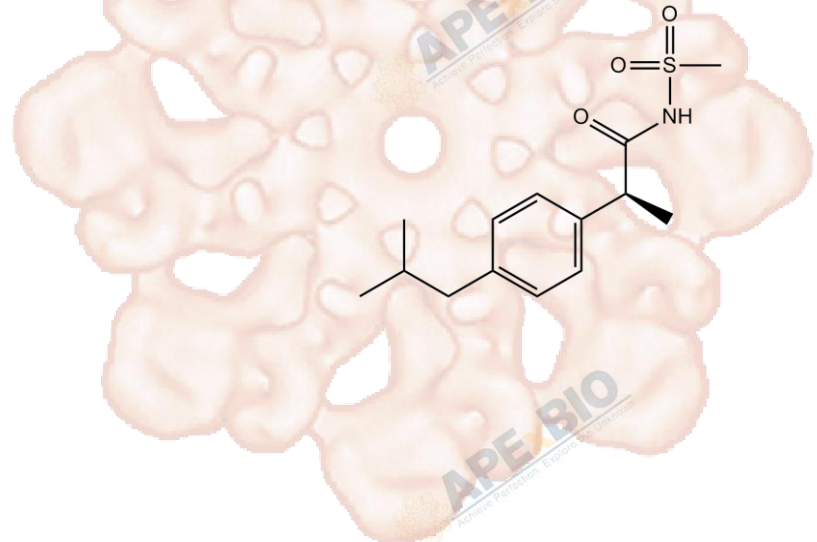


Product Data Sheet

Reparixin

Cat. No.:	A3752
CAS No.:	266359-83-5
Formula:	C ₁₄ H ₂₁ NO ₃ S
M.Wt:	283.39
Synonyms:	Repertaxin;DF 1681Y
Target:	GPCR/G protein
Pathway:	CXCR
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥14.15 mg/mL in DMSO; ≥47.3 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		3.5287 mL	17.6435 mL	35.2871 mL
	5 mM		0.7057 mL	3.5287 mL	7.0574 mL
	10 mM		0.3529 mL	1.7644 mL	3.5287 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary

Inhibitor of CXCL8 receptor and CXCR1/CXCR2 activation

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	Human polymorphonuclear cells (PMN) and monocytes and rodent peritoneal PMN.
Preparation method:	Soluble in DMSO. General tips for obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.
Reacting conditions:	45 min (human PMN), 1 h (rodent PMN), or 2 h (monocytes).

	Applications:	Repertaxin inhibits human PMN migration induced by CXCL8 and CXCL1 with IC50 values of 1 nM and 400 nM respectively, which are mediated by CXCR1 and CXCR2, respectively. Repertaxin also inhibits rodent PMN chemotaxis induced by CXCL1 and CXCL2.
In Vivo	Animal experiment	
	Animal models:	Rat model of liver postischaemia RI.
	Dosage form:	3, 15, or 30 mg/kg; 15 min before reperfusion (i.v.) and 2 h after reperfusion (s.c.).
	Applications:	Repertaxin (15 mg/kg) inhibits PMN recruitment into reperfused livers by 90% and significantly reduces liver damage.
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

1. Wang T, Notta F, et al. "Senescent Carcinoma-Associated Fibroblasts Upregulate IL8 to Enhance Prometastatic Phenotypes." Mol Cancer Res. 2017 Jan;15(1):3-14.PMID:27678171

See more customer validations on www.apexbt.com.

References

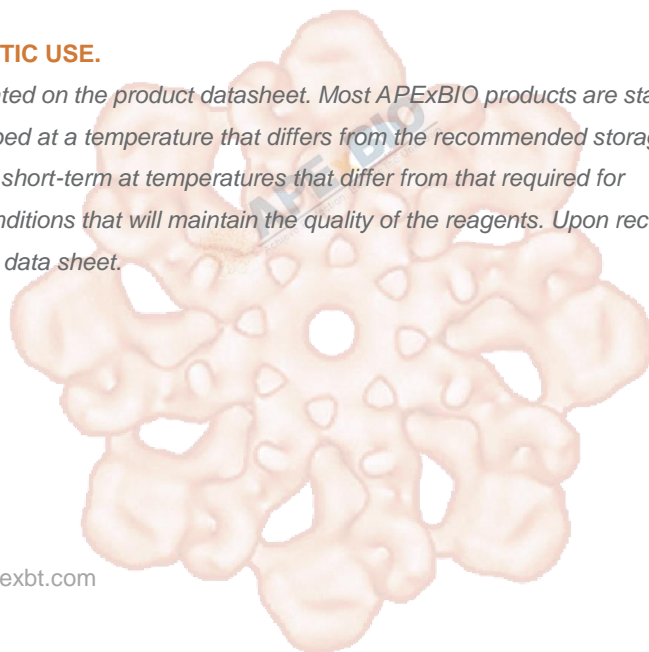
[1]. Bertini R, Allegretti M, Bizzarri C, et al. Noncompetitive allosteric inhibitors of the inflammatory chemokine receptors CXCR1 and CXCR2: prevention of reperfusion injury. Proc Natl Acad Sci U S A, 2004, 101(32): 11791-11796.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APEX BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Short-term storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.



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