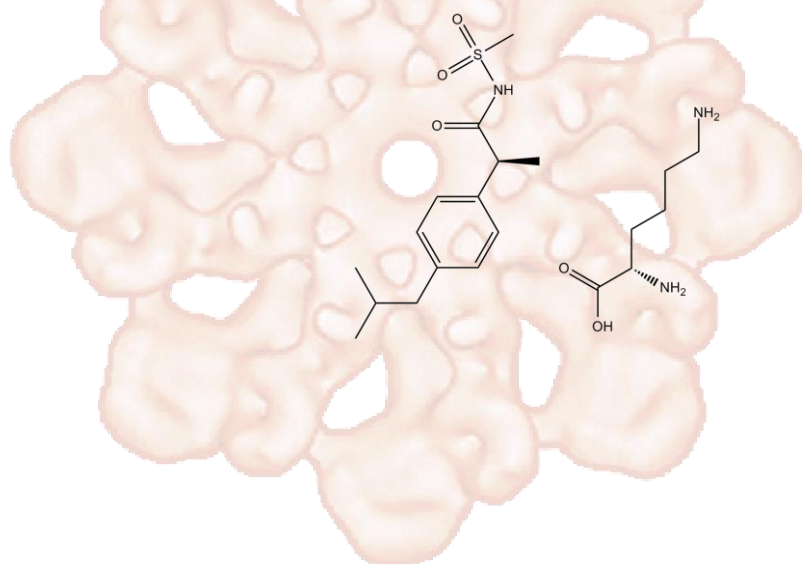


Product Data Sheet

Reparixin L-lysine salt

Cat. No.:	A3753
CAS No.:	266359-93-7
Formula:	C ₂₀ H ₃₅ N ₃ O ₅ S
M.Wt:	429.57
Synonyms:	Repertaxin L-lysine salt
Target:	GPCR/G protein
Pathway:	CXCR
Storage:	Store at -20°C



Solvent & Solubility

insoluble in DMSO; ≥16.67 mg/mL in H₂O with gentle warming; ≥66.67 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent	Mass	1mg	5mg	10mg
			Concentration		
	1 mM		2.3279 mL	11.6395 mL	23.2791 mL
	5 mM		0.4656 mL	2.3279 mL	4.6558 mL
	10 mM		0.2328 mL	1.1640 mL	2.3279 mL

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

Biological Activity

Shortsummary

CXCR1/CXCR2 inhibitor

IC₅₀ & Target

In Vitro

Cell Viability Assay

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. Sharma I, Singh A, et al. "IL-8/CXCR1/2 signalling promotes tumor cell proliferation, invasion and vascular mimicry in glioblastoma." J Biomed Sci. 2018 Aug 8;25(1):62.PMID:30086759

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References

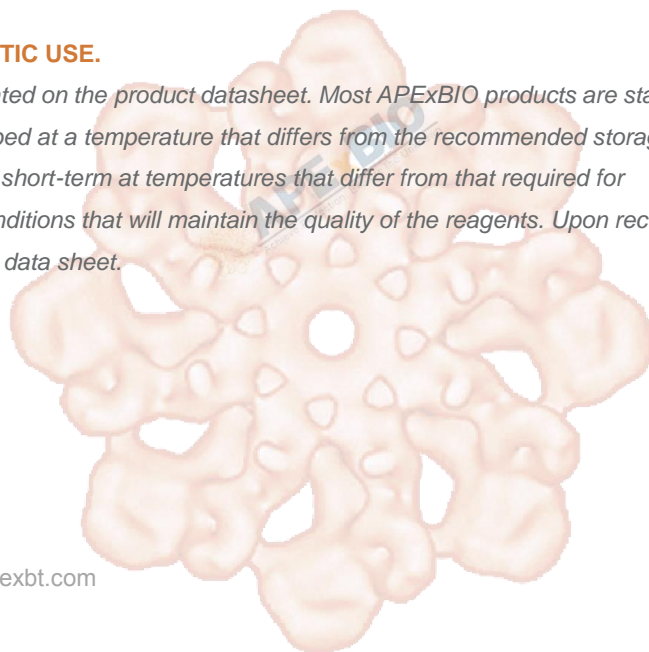
[1]. Bertini R, Allegretti M, Bizzarri C, et al. Noncompetitive allosteric inhibitors of the inflammatory chemokine receptors CXCR1 and CXCR2: prevention of reperfusion injury. Proc Natl Acad Sci U S A, 2004, 101(32): 11791-11796.

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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