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Data Sheet

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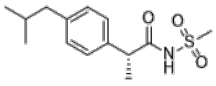

Product Name	:	Reparixin
Cat. No.	:	PC-23971
CAS No.	:	266359-83-5
Molecular Formula	:	$C_{14}H_{21}NO_3S$
Molecular Weight	:	283.39
Target	:	Chemokine Receptor (CCR and CXCR)
Solubility	:	10 mM in DMSO

Biological Activity

Reparixin (Repertaxin) is a potent, selective, non-competitive allosteric inhibitor of CXCL8 receptor CXCR1 and CXCR2 activation with IC50 of 1 nM and 100 nM, respectively.
Reparixin inhibited the chemotaxis of neutrophils induced by human CXCL8 or rat CINC-1, but not that induced by fMLP, PAF or LTB(4), in a concentration-dependent manner.
Reparixin also prevented CXCL8-induced calcium influx but not CXCL8 binding to purified rat neutrophils.
Reparixin dose-dependently (3-30 mg kg(-1)) inhibited the increase in vascular permeability and neutrophil influx.
Reparixin effectively suppressed the increase in tissue (intestine and lungs) and serum concentrations of TNF-alpha and the reperfusion-associated lethality.

References

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Garau A, et al. Eur Cytokine Netw. 2006 Mar;17(1):35-41.

Bertini R, et al. Proc Natl Acad Sci U S A. 2004 Aug 10;101(32):11791-6.

E-mail: tech@probechem.com