

CXCL16

Recombinant Mouse CXCL16

Catalog No.	CRC950A CRC950B CRC950C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	SR-PXOX, Scavenger Peceptor for Phosphatidylserine and Oxidized Low Density Lipoprotein, Small-inducible Cytokine B16, Transmembrane Chemokine CXCL16		
Description:	<p>Recombinant mouse CXCL16 is a single non-glycosylated polypeptide chain containing 88 amino acids.</p> <p>Background: CXCL16 (CXC chemokine 16) is a nonELR motifcontaining CXC chemokine with a transmembrane domain. CX3CL1/Fractalkine and CXCL16 are the only two transmembrane chemokines within the superfamily. Mouse CXCL16 cDNA encodes a 246 amino acid residues (a.a.) precursor protein with a putative 26 a.a. residues signal peptide,an 88 a.a. residues chemokine domain, an 87 a.a. residues mucin like spacer region, a 22 a.a. residue trans-membrane domain, and a 23 a.a. residues cytoplasmic tail. Mouse and human CXCL16 share 49% overall a.a. identity and 70% similarity in the chemokine domains. Mouse CXCL16 is produced by dendritic cells in lymphoid organ T cell zones and by cells in the splenic red pulp both as membranebound and soluble forms. Based on northern blot analysis, CXCL16 is also expressed in some nonlymphoid tissues such as lung, small intestine and kidney. The receptor for CXCL16 has been identified as CXCR6/Bonzo (STRL33 and TYMSTR), a receptor previously shown to be a co-receptor for HIV entry.CXCR6 is expressed on naive CD8 cells, natural killer T cells and activated CD8 and CD4 T cells.</p>		
Gene ID:	66102		
Source:	<i>E. coli</i>		
Molecular Weight:	9.9 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS.		
Purity:	> 98% as determined by SDS-PAGE and HPLC analyses		
Endotoxin Level:	Less than 1 EU/µg of rMuCXCL16 as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using murine lymphocytes is in a concentration of 20-1000 ng/ml.		
Amino Acid Sequence:	NQGSVAGSCS CDRTISSGTQ IPQGTLDBIR KYLKAFHRCP FFIRFQLQSK SVCGGSQDQW VRELVDLDFER KECGTGHGKS FHHQKHLP		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.		



Storage & Stability:

This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

