

Datasheet for ABIN987799 **CXCL16 Protein**



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Overview

Quantity:	1 mg
Target:	CXCL16
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	NQGSVAGSCS CDRTISSGTQ IPQGTLDHIR KYLKAFHRCP FFIRFQLQSK SVCGGSQDQW VRELVDCEFER KECGTGHGKS FHHQKHL
Characteristics:	Fully biologically active when compared to standard. The ED50 determined by a chemotaxis bioassay using murine lymphocytes is less than 1000 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^3$ IU/mg.
Purity:	> 98 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/ μ g of rMuCXCL16 as determined by LAL method

Target Details

Target:	CXCL16
Alternative Name:	CXCL16 (CXCL16 Products)
Background:	Mouse 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 (aa)

Target Details

precursor protein with a putative 26 aa residue signal peptide,an 88 aa residue chemokine domain, an 87 aa residue mucinlike spacer region, a 22 aa residue transmembrane domain, and a 23 aa residue cytoplasmic tail. Mouse and human CXCL16 share 49% overall aa 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 coreceptor for HIV entry.CXCR6 is expressed on naive CD8 cells, naturalkiller T cells and activated CD8 and CD4 T cells. Synonym: CXCL16, Mouse. Formulation: Lyophilized from a 0.2µm filtered concentrated solution in PBS.

Molecular Weight: Recombinant murine CXCL16 is a 9.9 kDa protein containing 88 amino acid residues.

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 °C. Further dilutions should be made in appropriate buffered solutions.

Storage: 4 °C