

Active Recombinant Mouse Chemokine (C-X-C motif) Ligand 16, His-tagged

Cat. No. Cxcl16-484M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman Cxcl16 protein with a C-terminal 6-His tag was expressed in Murine myeloma cell line, NS0-derived, NS0-derived. Asn27 - Trp201.
Species	Mouse
Source	Mammalian Cells
Protein Length	27-201 a.a.
Description	Cxcl16 is a type I membrane protein containing a nonELR motif containing CXC chemokine domain in its extracellular region. Together with Fractalkine (CX3CL1), Cxcl16 constitute the only two transmembrane chemokines within the superfamily. Mouse Cxcl16 cDNA encodes a 246 amino acid (aa) precursor protein with a putative 26 aa residue signal peptide, an 88 aa residue chemokine domain, an 87 aa residue mucin-like spacer region, a 22 aa residue transmembrane domain, and a 23 aa residue cytoplasmic tail with a potential tyrosine phosphorylation and SH2 protein binding site.
Form	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	Asn27
Molecular Weight	19.9 kDa

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Activity	Measured by its ability to chemoattract mouse CXCR6 transfected BaF3 mouse proB cells. Matloubian, M. et al. (2000) Nat. Immunol. 1:298. The ED50 for this effect is typically 420 ng/mL.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 25 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	Cxcl16 chemokine (C-X-C motif) ligand 16 [<i>Mus musculus</i>]
Official Symbol	Cxcl16
Synonyms	Cxcl16; chemokine(C-X-C motif) ligand 16; SR-PSOX; Zmynd15; AV290116; BB024863; CXCL16v1; CXCL16v2; 0910001K24Rik; C-X-C motif chemokine 16; SR-PSOX/CXCL16; Cxc chemokine ligand 16; small-inducible cytokine B16; transmembrane chemokine CXCL16; zinc finger, MYND-type containing 15; scavenger receptor for phosphatidylserine and oxidized low density lipoprotein
Gene ID	66102
mRNA Refseq	NM_023158

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Protein Refseq	NP_075647
UniProt ID	Q8BSU2
Chromosome Location	11; 11 B4
Pathway	Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; G alpha (i) signaling events; GPCR downstream signaling; GPCR ligand binding; Peptide ligand-binding receptors; Signal Transduction; Signaling by GPCR
Function	chemokine activity; cytokine activity; low-density lipoprotein receptor activity; scavenger receptor activity

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