

Recombinant Mouse Cxcl16 protein

Cat. No. Cxcl16-85M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cxcl16 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	88
Description	CXCL16 is a member of the CXC chemokine family. Larger than other chemokines, it is one of the only two transmembrane chemokines in the family and the other is CX3CL1. Mouse CXCL16 has 246 a.a. and consists of a 26 a.a. residue putative signal peptide, an 88 a.a. residue chemokine domain, an 87 a.a. residue mucin-like spacer region, a 22 a.a. residue transmembrane domain, and a 23 a.a. residue cytoplasmic tail. Mouse CXCL16 shares 70 % sequence identity with human CXCL16 in chemokine domain. CXCL16 interacts with the chemokine receptor CXCR6, also known as Bonzo. Expression of CXCL16 is induced by the inflammatory cytokines IFN-gamma and TNF-alpha. Functions of CXCL16 include inducing a strong chemotactic response and calcium mobilization. CXCL16 also acts as a scavenger receptor on macrophages, which specifically binds to OxLDL (oxidized low density lipoprotein), suggesting that it may be involved in pathophysiology such as atherogenesis.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS.
Bio-activity	Fully biologically active when compared to standard. The biological activity

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	determined by a chemotaxis bioassay using murine lymphocytes is in a concentration of 20-1000 ng/ml.
Molecular Mass	Approximately 9.9 kDa, a single non-glycosylated polypeptide chain containing 88 amino acids.
AA Sequence	NQGSVAGSCSCDRTISSGTQIPQGTLDIRKYLKAFHRCPPFFIRFQLQSKSVCGGSQ DQWVRELVDCFERKECGTGHGKSFHHQKHLP
Endotoxin	Less than 1 EU/μg of rMuCXCL16 as determined by LAL method.
Purity	>98% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 ≤-20centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Cxcl16
Official Symbol	Cxcl16
Synonyms	CXCL16; chemokine (C-X-C motif) ligand 16; C-X-C motif chemokine 16; SR-

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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; SR-PSOX; Zmynd15; AV290116; BB024863; CXCL16v1; CXCL16v2; 0910001K24Rik;

Gene ID 66102

mRNA Refseq NM_023158

Protein Refseq NP_075647

UniProt ID Q8BSU2

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