

## Recombinant Mouse Cxcl16 protein

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Cxcl16 protein was expressed in Escherichia coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	88
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in PBS.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The biological activity

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	determined by a chemotaxis bioassay using murine lymphocytes is in a concentration of 20-1000 ng/ml.
<b>Molecular Mass</b>	Approximately 9.9 kDa, a single non-glycosylated polypeptide chain containing 88 amino acids.
<b>AA Sequence</b>	NQGSVAGSCSCDRTISSGTQIPQGTLDIRKYLKAFHRCPPFFIRFQLQSKSVCGGSQ DQWVRELVDCFERKECGTGHGKSFHHQKHLF
<b>Endotoxin</b>	Less than 1 EU/μg of rMuCXCL16 as determined by LAL method.
<b>Purity</b>	>98% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	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.
<b>Reconstitution</b>	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

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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



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](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA