

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

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

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinanthuman Cxcl16 protein with a C-terminal 6-His tag was expressed in Murine myeloma cell line, NS0-derived, NS0-derived. Asn27 - Trp201.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>             | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>      | 27-201 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>        | Cxcl16 is a type I membraneprotein containing a nonELR motifcontaining CXC chemokine domain in itsextracellular region. Together with Fractalkine (CX3CL1), Cxcl16 constitutethe only two transmembrane chemokines within the superfamily. Mouse Cxcl16 Cdnaencodes a 246 amino acid (aa) precursor protein with a putative 26 aa residuesignal peptide, an 88 aa residue chemokine domain, an 87 aa residue mucinlikespacer region, a 22 aa residue transmembrane domain, and a 23 aa residuecytoplasmic tail with a potential tyrosine phosphorylation and SH2proteinbinding site. |
| <b>Form</b>               | Lyophilized from a0.2 µm filtered solution in PBS with BSA as a carrier protein.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>N-terminalSequence</b> | Asn27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>MolecularWeight</b>    | 19.9 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

 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

|                        |                                                                                                                                                                                                     |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Activity</b>        | 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.           |
| <b>Endotoxin Level</b> | <1.0 EU per 1 µg of the protein by the LAL method.                                                                                                                                                  |
| <b>Purity</b>          | >95%, by SDS-PAGE under reducing conditions and visualized by silver stain.                                                                                                                         |
| <b>Reconstitution</b>  | Reconstitute at 25 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.                                                                                                     |
| <b>Storage</b>         | 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

|                        |                                                                                                                                                                                                                                                                                                                                                                          |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cxcl16 chemokine (C-X-C motif) ligand 16 [ <i>Mus musculus</i> ]                                                                                                                                                                                                                                                                                                         |
| <b>Official Symbol</b> | Cxcl16                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 66102                                                                                                                                                                                                                                                                                                                                                                    |
| <b>mRNA Refseq</b>     | NM_023158                                                                                                                                                                                                                                                                                                                                                                |

 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

|                     |                                                                                                                                                                                                                                                                                                         |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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) signalling 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                                                                                                                                                                                           |

 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