10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

CXCL16, mouse recombinant protein

C-X-C motif chemokine 16, Small-inducible cytokine B16, Transmembrane chemokine CXCL16, SR-PSOX, Cxc

Catalog # PBV10243r

Specification

CXCL16, mouse recombinant protein - Product info

Primary Accession	Q8BSU2
Calculated MW	9.9 kDa KDa

CXCL16, mouse recombinant protein - Additional Info

Gene ID	66102
Gene Symbol	CXL16

Other Names
C-X-C motif chemokine 16, Small-inducible cytokine B16, Transmembrane chemokine CXCL16, SR-PSOX, Cxcl16, Srpsox, Zmynd15, AV290116, BB024863, 0910001K24Rik.

Gene Source	Mouse
Source	E. coli
Assay&Purity	SDS-PAGE; ≥97%
Assay2&Purity2	HPLC; ≥97%
Recombinant	Yes
Sequence	NQGSVAGSCS CDRTISSGTQ IPQGTLDHIR KYLKAFHRCP FFIRFQLQSK SVCGGSQDQW VRELVDCFER KECGTGHGKS FHHQKHLP

Target/Specificity
CXCL16

Application Notes
Reconstitute in sterile ddH_2O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

Format
Lyophilized protein

Storage
-20°C; Lyophilized from a filtered solution containing 20 mM sodium phosphate buffer, pH 7.4 and 50 mM NaCl.

CXCL16, mouse recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

CXCL16, mouse recombinant protein - Images

CXCL16, mouse recombinant protein - Background

Mouse CXCL16 is a nonELR motif including CXC chemokine with a transmembrane domain. CXCL16 induces 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 atherogenesis. Mouse CXCL16 is generated by dendritic cells in lymphoid organ T cell zones and by cells in the splenic red pulp both as membrane bound and soluble forms. CXCL16 is expressed in the spleen, lymph nodes, Peyer patches non-lymphoid tissues (e.g. lung, kidney, small intestine, thymus). It is weakly expressed in heart and liver and not expressed in brain and purified B- and T-cells. CXCL16 deficiency is linked to breast cancer progression and is involved in immunological liver injury (by regulating T lymphocyte infiltration). CXCL16 has a distinctive role in the maintenance of cardiac allograft tolerance mediated by natural killer T cells, and in the production of IFN-gamma by NKT cells and promotion of Th1-inclined immune responses mediated by NKT cells. CXCL16 Mouse Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 88 amino acids and having a molecular mass of 9.9kDa. The CXCL16 is purified by proprietary chromatographic techniques.

CXCL16, mouse recombinant protein - References

Matloubian M.,et al.Nat. Immunol. 1:298-304(2000).
Shimaoka T.,et al.J. Biol. Chem. 275:40663-40666(2000).
Carninci P.,et al.Science 309:1559-1563(2005).
Church D.M.,et al.PLoS Biol. 7:E1000112-E1000112(2009).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.