

Recombinant Mouse CXCL16

CATALOG #: 4353-25 25 µg
4353-1000 1 mg

LOT #: _____

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

SOURCE: *E. coli*

PURITY: > 97 % by SDS-PAGE and RP-HPLC

FORM: Lyophilized from a filtered solution containing 20 mM sodium phosphate buffer, pH 7.4 and 50 mM NaCl.

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted mouse CXCL16 should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

DESCRIPTION:

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.

AMINO ACID SEQUENCE:

NQGSVAGSCS CDRTISSGTQ IPQGTLDHIR KYLKAFHRCP FFIRFQLQSK SVCGGSQDQW VRELVDRCFER KECGTGHGKS FHHQKHLF

BIOLOGICAL ACTIVITY:

Determined by its ability to chemoattract murine lymphocytes using a concentration range of 100-1000 ng/ml.

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