

Recombinant Mouse Cx3cl1 protein

Cat. No. Cx3cl1-949M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Cx3cl1 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	76
Description	This gene belongs to the CX3C subgroup of chemokines, characterized by the number of amino acids located between the conserved cysteine residues. This is the only member of the CX3C subgroup, which contains three amino acids between cysteine residues, resulting in a Cys-X-X-X-Cys configuration. The encoded protein contains an extended mucin-like stalk with a chemokine domain on top, and exists in both a membrane-anchored form where it acts as a binding molecule, or, in soluble form, as a chemotactic cytokine. The mature form of this protein can be cleaved at the cell surface, yielding different soluble forms that can interact with the G-protein coupled receptor, C-X3-C motif chemokine receptor 1 gene product.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using human peripheral blood lymphocytes (PBL) is less than 0.5 µg/ml, corresponding to a specific activity of > 2000 IU/mg.
Molecular Mass	Approximately 8.7 kDa, a single non-glycosylated polypeptide chain containing 76

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amino acids and comprises only the chemokine domain of Murine Fractalkine.

AA Sequence

QHLGMTKCEIMCGKMTSRIPVALLIRYQLNQESCGKRAIVLETTQHRRFCADPKEKW
VQDAMKHLHDHAAAALTKNG

Endotoxin

Less than 0.1 EU/g of rMuFractalkine/CX3CL1 as determined by LAL method.

Purity

>97% 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 ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name

Cx3cl1

Official Symbol

Cx3cl1

Synonyms

CX3CL1; chemokine (C-X3-C motif) ligand 1; fractalkine; neurotactin; C-X3-C motif chemokine 1; small-inducible cytokine D1; CX3C membrane-anchored chemokine; small inducible cytokine subfamily D, 1; CX3C; Cxc3; Scyd1; ABCD-3; AB030188; AI848747; D8Bwg0439e;

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Gene ID	20312
mRNA Refseq	NM_009142
Protein Refseq	NP_033168
UniProt ID	O35188

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