

Recombinant Rat Cx3cl1 protein

Cat. No. Cx3cl1-633R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cx3cl1 protein was expressed in Escherichia coli.
Species	Rat
Source	E.coli
ProteinLength	76
Description	CX3CL1 recently identified through bioinformatics is the only known member of the CX3C chemokine family and it is also commonly known under the names fractalkine (in humans) and neurotactin (in mice). Unlike other known chemokines, CX3CL1 is a type 1 membrane protein containing a chemokine domain tethered on a long mucinlike stalk. The soluble form of CX3CL1 is chemotactic for T-cells and monocytes, but not for neutrophils. In addition, it may play a role in regulating leukocyte adhesion and migration processes at the endothelium. Recombinant Rat CX3CL1 contains 76 amino acids and it shares approximately 86 % and 83 % amino acid sequence homology with the murine and human protein.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 2x PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration of 5.0-10 ng/ml.
Molecular Mass	Approximately 8.8 kDa, a single non-glycosylated polypeptide chain containing 76

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

AA Sequence

QHLGMTKCNITCHKMTSPIPVTLIIHYQLNQESCGKRAIILETRQHRHFCADPKEKWV
QDAMKHLDHQTAALTRNG

Endotoxin

Less than 1 EU/g of rRtFractalkine/CX3CL1 as determined by LAL method.

Purity

>95% 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; Scyd1;

Gene ID

89808

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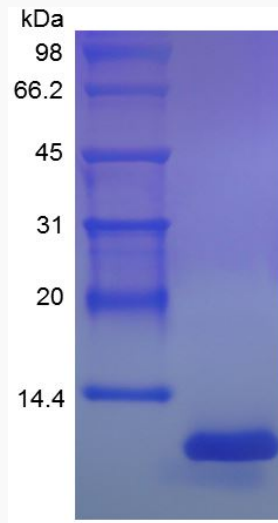
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mRNA Refseq [NM_134455](#)

Protein Refseq [NP_604450](#)

UniProt ID [O55145](#)

**SDS-PAGE of
Cx3cl1-633R**



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