

## Recombinant Mouse CCL22 Protein

**Cat. No.** CCL22-2887M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Fractalkine Mouse Recombinant produced in E. coli is a single, non-glycosylated, polypeptide chain containing 76 amino acids and having a molecular mass of 8.7 kDa. The CX3CL1 is purified by proprietary chromatographic techniques.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Fractalkine soluble form is chemotactic for t-cells and monocytes, but not for neutrophils. Fractalkine membrane-bound form promotes adhesion of those leukocytes to endothelial cells. Fractalkine regulates leukocyte adhesion and migration processes at the endothelium and binds to CX3CR1. Natural Human Fractalkine is produced as a long protein (373-amino acid) with an extended mucin-like stalk and a chemokine domain on top. The mucin-like stalk permits it to bind to the cell surface. Fractalkine gene is located on human chromosome 16 along with some CC chemokines known as CCL17 and CCL22.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	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.
<b>Molecular Mass</b>	8.7 kDa

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<b>AA Sequence</b>	QHLGMTKCEIMCGKMTSRIPVALLIRYQLNQESCGKRAIVLETTQHRRFCADPKEKW VQDAMKHLHDHAAAALTKNG.
<b>Purity</b>	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Stability</b>	Lyophilized CX3CL1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 centigrade. Upon reconstitution CX3CL1 should be stored at 4 centigrade between 2-7 days and for future use below -18 centigrade. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Usage</b>	Our products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Shipping</b>	Shipped at Room temp.
<b>Reconstitution</b>	It is recommended to reconstitute the lyophilized CX3CL1 in sterile 18MΩ-cm H2O not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Ccl22 chemokine (C-C motif) ligand 22 [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">CCL22</a>

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**Synonyms**

CCL22; chemokine (C-C motif) ligand 22; C-C motif chemokine 22; CC chemokine ABCD-1; small-inducible cytokine A22; activated B and dendritic cell-derived; small inducible cytokine subfamily A22; dendritic cell and B cell derived chemokine; small inducible cytokine subfamily A, member 22; SMALL INDUCIBLE CYTOKINE A22 PRECURSOR (CC CHEMOKINE ABCD-1) (ACTIVATED B AND DENDRITIC CELL-DERIVED); MDC; DCBCK; ABCD-1; Scya22;

**Gene ID**[20299](#)**mRNA Refseq**[NM\\_009137](#)**Protein Refseq**[NP\\_033163](#)**UniProt ID**[O88430](#)

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