Recombinant Mouse CCL22 Protein

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

SPECIFICATION

Product Overview	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.
Species	Mouse
Source	E.coli
Description	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.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	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	8.7 kDa

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AA Sequence	QHLGMTKCEIMCGKMTSRIPVALLIRYQLNQESCGKRAIVLETTQHRRFCADPKEKW VQDAMKHLDHQAAALTKNG.
Purity	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Stability	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.
Usage	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.
Storage Buffer	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Shipping	Shipped at Room temp.
Reconstitution	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

Gene Name	Ccl22 chemokine (C-C motif) ligand 22 [Mus musculus]
Official Symbol	CCL22

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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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