

Active Human CX3CL1, Biotin-tagged

Cat. No. CX3CL1-103H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	It is a synthetic Protein with Biotin tag.
Species	Human
Description	Fractalkine, also termed neurotactin, is a membrane-bound CX3C chemokine. The mature protein is part of a 397-amino acid precursor consisting of a chemokine domain (76 amino acids), a mucin stalk of 241 residues, a putative transmembrane domain (18 amino acids), and an intracellular tail of 37 amino acids. Within the chemokine domain the first two cysteine residues are separated by 3 amino acids. Fractalkine message is found at high concentrations in the brain, and also in kidney, lung and heart. Fractalkine is chemotactic for monocytes and may play a role in brain inflammation. Product provided is the 76 amino acid chemokine domain with a C-terminal biotin.
Form	Lyophilized
Bio-activity	Activity determined by a chemotaxis assay using human monocytes. Chemotaxis was achieved using a concentration of 10ng/ml. Optimal concentration should be evaluated by serial dilutions.
Applications	Activity Assay
Storage	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles
Reconstitution	Recommended reconstitution in sterile phosphate buffered saline which contains at

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least 0.1% human or bovine serum albumin to prepare a stock solution of no less than 20 µg/ml and vortex thoroughly.

GENE INFORMATION

Gene Name	CX3CL1 chemokine (C-X3-C motif) ligand 1 [Homo sapiens]
Official Symbol	CX3CL1
Synonyms	CX3CL1; chemokine (C-X3-C motif) ligand 1; SCYD1, small inducible cytokine subfamily D (Cys X3 Cys), member 1 (fractalkine, neurotactin); fractalkine; ABCD 3; C3Xkine; CXC3; CXC3C; neurotactin; NTN; C-X3-C motif chemokine 1; small-inducible cytokine D1; CX3C membrane-anchored chemokine; small inducible cytokine subfamily D (Cys-X3-Cys), member-1; small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine, neurotactin); NTT; SCYD1; ABCD-3;
Gene ID	6376
mRNA Refseq	NM_002996
Protein Refseq	NP_002987
MIM	601880
UniProt ID	P78423
Chromosome Location	16q13
Pathway	Chemokine receptors bind chemokines, organism-specific biosystem; Chemokine signaling pathway, organism-specific biosystem; Chemokine signaling pathway,

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conserved biosystem; Class A/1 (Rhodopsin-like receptors), organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem; Direct p53 effectors, organism-specific biosystem;

Function

chemokine activity; protein binding; receptor binding;

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