

## Active Human CX3CL1, Biotin-tagged

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

### SPECIFICATION

<b>Product Overview</b>	It is a synthetic Protein with Biotin tag.
<b>Species</b>	Human
<b>Description</b>	<p>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.</p>
<b>Form</b>	Lyophilized
<b>Bio-activity</b>	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.
<b>Applications</b>	Activity Assay
<b>Storage</b>	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles
<b>Reconstitution</b>	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 stocksolution of no less than 20 µg/ml and vortex thoroughly.

## GENE INFORMATION

<b>Gene Name</b>	CX3CL1 chemokine (C-X3-C motif) ligand 1 [ Homo sapiens ]
<b>Official Symbol</b>	CX3CL1
<b>Synonyms</b>	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;
<b>Gene ID</b>	6376
<b>mRNA Refseq</b>	NM_002996
<b>Protein Refseq</b>	NP_002987
<b>MIM</b>	601880
<b>UniProt ID</b>	P78423
<b>Chromosome Location</b>	16q13
<b>Pathway</b>	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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