

# Active Recombinant Mouse Chemokine (C-X3-C motif) Ligand 1, His-tagged

**Cat. No.** Cx3cl1-380M    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Cx3cl1 protein was expressed in <i>Spodoptera frugiperda</i> , Sf 21 (baculovirus), with a C-terminal 6-His-tagged.Gln25-Arg337.
<b>Species</b>	Mouse
<b>Source</b>	<i>S. frugiperda</i>
<b>Protein Length</b>	25-337 a.a.
<b>Description</b>	Cx3cl1 is a large cytokine protein of 373 amino acids; it contains multiple domains and is the only known member of the CX3C chemokine family. It is also commonly known under the names fractalkine (in humans) and neurotactin (in mice). The polypeptide structure of Cx3cl1 differs from the typical structure of other chemokines.
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA with BSA as a carrier protein.
<b>N-terminal Sequence</b>	No results obtained:Gln25 predicted
<b>Molecular Weight</b>	34 kDa
<b>Activity</b>	Measured by its ability to chemoattract freshly isolated human peripheral blood lymphocytes (PBL). The ED50 for this effect is typically 0.2-0.6 µg/mL. Measured by its ability to chemoattract human CX3CR1 transfected BaF3 mouse pro-B cells. The

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	ED50 for this effect is typically 0.03-0.12 µg/mL.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Reconstitution</b>	Reconstitute at 10µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	Cx3cl1 chemokine (C-X3-C motif) ligand 1 [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Cx3cl1
<b>Synonyms</b>	Cx3cl1; chemokine (C-X3-C motif) ligand 1; CX3C; Cxc3; Scyd1; ABCD-3; AB030188; A1848747; D8Bwg0439e; fractalkine; neurotactin; C-X3-C motif chemokine 1; small-inducible cytokine D1; CX3C membrane-anchored chemokine; small inducible cytokine subfamily D, 1; Fkn; Cx3C
<b>Gene ID</b>	20312
<b>mRNA Refseq</b>	NM_009142
<b>Protein Refseq</b>	NP_033168
<b>UniProt ID</b>	O35188

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<b>Chromosome Location</b>	8
<b>Pathway</b>	Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodesian-like receptors); Cytokine-cytokine receptor interaction; GPCR ligand binding; Peptide ligand-binding receptors; Signal Transduction; Signaling by GPCR
<b>Function</b>	chemokine activity; cytokine activity
<b>PDB rendering based on 1b2t.</b>	