

Active Recombinant Rat Chemokine (C-X3-C motif) Ligand 1

Cat. No. Cx3cl1-460R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cx3cl1 protein was expressed in Sf21. Gln25-Thr334.
Species	Rat
Source	S.frugiperda
Protein Length	25-334 a.a.
Description	Cx3cl1, also named neurotactin, is a member of the delta chemokine subfamily that contains a novel C-X3-C motif. Unlike other known chemokines, Cx3cl1 is a type 1 membrane protein containing a chemokine domain tethered on a long mucinlike stalk. Rat Cx3cl1 cDNA encodes a 393 amino acid (aa) residue precursor protein with two alternative (21 aa or 24 aa residue) putative signal peptides, a 76 aa residue globular chemokine domain, a 238 aa residue stalk region rich in Gly, Pro, Ser and Thr and containing degenerate mucinlike repeats, a 19 aa residue transmembrane segment and a 36 aa residue cytoplasmic domain.
Form	Lyophilized from a 0.2µm filtered solution in PBS with BSA as a carrier protein.
N-terminal Sequence	No results obtained: Gln25 predicted
Molecular Weight	33 kDa
Activity	Measured by its ability to chemoattract mouse Cx3cl1 transfected BaF3 mouse proB cells. The ED50 for this effect is typically 0.02-0.08 ng/mL.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	Reconstitute at 100 µg/mL in sterile PBS that containing at least 0.1% human or bovine serum albumin.
Storage	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

Gene Name	Cx3cl1 chemokine(C-X3-C motif) ligand 1 [<i>Rattus norvegicus</i>]
Official Symbol	Cx3cl1
Synonyms	Cx3cl1; chemokine(C-X3-C motif) ligand 1; Cx3c; Scyd1; fractalkine; neurotactin; C-X3-C motif chemokine1; small-inducible cytokine D1; CX3C membrane-anchored chemokine; small inducible cytokine subfamily D, 1; Acc1; Fkn
Gene ID	89808
mRNA Refseq	NM_134455
Protein Refseq	NP_604450
UniProt ID	O55145
Chromosome Location	19p12

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Pathway	Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; GPCR ligand binding; Peptide ligand-binding receptors; Signal Transduction; Signaling by GPCR
Function	chemokine activity

PDB rendering based on 1b2t.

