

Recombinant Rat Cx3cl1 Chemokine (C-X3-C Motif) Ligand 1

Cat. No. Cx3cl1-128R **Lot. No.** (See product label)

SPECIFICATION

Species	Rat
Source	Sf21 Cells
Description	<p>Fractalkine (FKN) is a transmembrane mucin-chemokine hybrid molecule expressed on activated endothelium that mediates attachment and firm adhesion of T cells, monocytes and NK cells. FKN plays an important proinflammatory role in rheumatoid arthritis (RA) pathogenesis as characterized by induction of synovial angiogenesis, chemotaxis, activation of monocytes and T cells as well as the stimulation of proliferation and synthesis of matrix degrading enzymes (matrix metalloproteinases, MMP) in synovial fibroblasts. Fractalkine thus may represent a novel target molecule for therapeutic intervention in RA. FKN is also an essential biomarker for predicting the prognosis of patients with colorectal cancer (CRC).</p>
Molecular Weight	<p>The predicted molecular weight of Recombinant Rat Fractalkine is Mr 33 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 100 kDa.</p>
State Of Matter	Lyophilized.
Purity	>97% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Storage And Stability	This lyophilized protein is stable for six to twelve months when stored desiccated at -

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20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles. See Product Insert for exact lot specific storage instructions.

GENE INFORMATION

Gene Name	Cx3cl1 chemokine (C-X3-C motif) ligand 1 [<i>Rattus norvegicus</i>]
Synonyms	Cx3cl1; chemokine (C-X3-C motif) ligand 1; Cx3c; Scyd1; fractalkine; small inducible cytokine subfamily D, 1; small inducible cytokine subfamily D 1
Gene ID	89808
mRNA Refseq	NM_134455
Protein Refseq	NP_604450
UniProt ID	O55145
Chromosome Location	19p12
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
Function	chemokine activity
PDB rendering based on 1b2t.	

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