

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

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

SPECIFICATION

Product Overview

Species	Rat
Source	Sf21 Cells
Description	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).
Molecular Weight	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.
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.

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Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -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 [Rattus norvegicus]
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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