

Recombinant Human Chemokine (C-X3-C Motif) Ligand 1

Cat. No. CX3CL1-123H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Fractalkine encoding the extracellular domain of human fractalkine (aa residues 1 - 339) with KQNHHHHHH added to the carboxy-terminus was inserted into an expression vector and expressed in aNSO <i>cell line</i> .
Species	Human
Source	Mammalian Cells
ProteinLength	1-339 a.a.
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).
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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Biological Activity	The biological activity of Human Fractalkine was determined by its ability to chemoattract freshly isolated peripheral blood lymphocytes or mouse Baf/3 cells transfected with hCX3CR-1. The expected ED ₅₀ for this effect is typically 50 - 150 ng/mL, or 2.5 - 10 ng/mL, respectively.
Molecular Weight	The predicted molecular weight of Recombinant Human Fractalkine is Mr 35 kDa. However, due to glycosylation, the actual molecular weight as observed by migration on SDS Page is Mr 90 kDa.
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.

GENE INFORMATION

Gene Name	CX3CL1 chemokine (C-X3-C motif) ligand 1 [Homo sapiens]
Synonyms	CX3CL1; chemokine (C-X3-C motif) ligand 1; NTN; NTT; CXC3; CXC3C; SCYD1; ABCD-3; C3Xkine; fractalkine; neurotactin; small inducible cytokine subfamily D (Cys-X3-Cys), member-1; small inducible cytokine subfamily D (Cys-X3-Cys), member 1 (fractalkine, neurotactin); C-X3-C motif chemokine 1; Neurotactin; Small-inducible cytokine D1; Processed fractalkine
Gene ID	6376
mRNA Refseq	NM_002996
Protein Refseq	NP_002987
MIM	601880

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UniProt ID	P78423
Chromosome Location	16q13
Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction; Signaling by GPCR
Function	chemokine activity
PDB rendering based on 1b2t.	

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