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## Recombinant human CX3CL1/Fractalkine protein

Catalog Number: ATGP0380

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

25-100aa

#### UniProt No.

P78423

#### **NCBI Accession No.**

NP 002987

#### **Alternative Names**

Chemokine (C-X3-C motif) ligand 1, ABCD-3, C3Xkine, CXC3, CXC3C, NTN, NTT, SCYD1, CX3CL1, Chemokine (C-X3-C motif) ligand 1, small inducible cytokine subfamily D (Cys-X3-Cys) member 1 (fractalkine, neurotactin), fractalkine, neurotactin

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

10.9 kDa (97aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CX3CL1, also known as fractalkine. CX3CL1 has a unique CX3C cysteine motif near the amino terminus and is the first member of a fourth branch of the chemokine superfamily. unlike other known chemokines, CX3CL1 is a



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type 1 membrane protein containing a chemokine domain tethered on a long mucin like stalk. It is expressed in a membrane-bound form on activated endothelial cells and mediates attachment and firm adhesion of T cells, monocytes and NK cells. Also, CX3CL1 elicits its adhesive and migratory functions by interacting with the chemokine receptor CX3CR1. Recombinant human CX3CL1, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

#### **Amino acid Sequence**

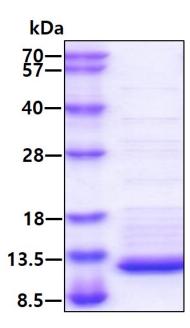
MGSSHHHHHH SSGLVPRGSH MQHHGVTKCN ITCSKMTSKI PVALLIHYQQ NQASCGKRAI ILETRQHRLF CADPKEQWVK DAMQHLDRQA AALTRNG

#### **General References**

Bazan JF., et al. (1997) Nature. 385(6617):640-4. Papadopoulos EJ., et al. (1999) Eur J Immunol. 29(8):2551-9.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

