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# Recombinant human CX3CL1/Fractalkine protein

Catalog Number: ATGP3885

## **PRODUCT INFORMATION**

## **Expression system**

Baculovirus

#### **Domain**

25-339aa

#### UniProt No.

P78423

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

NP 002987

## **Alternative Names**

CX3CL1, ABCD-3, C3Xkine, CXC3, CXC3C, fractalkine, neurotactin, NTN, NTT, SCYD1, C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1

### **PRODUCT SPECIFICATION**

## **Molecular Weight**

34.3 kDa (323aa)

#### Concentration

1mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 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 isoform 1, is a member of the CX3C chemokine family. It acts as a ligand for both CX3CR1 and integrins. This protein acts different ways dependent on its form. The soluble form is chemotactic for T-cells and monocytes and not for neutrophils. The membrane-bound form promotes adhesion of



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those leukocytes to endothelial cells. This protein plays a role in regulating leukocyte adhesion and migration processes at the endothelium. It is also up-regulated in the hippocampus during a brief temporal window following spatial learning, the purpose of which may be to regulate glutamate-mediated neurotransmission tone. This indicates a possible role for the chemokine in the protective plasticity process of synaptic scaling. Recombinant human CX3CL1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography technique.

## **Amino acid Sequence**

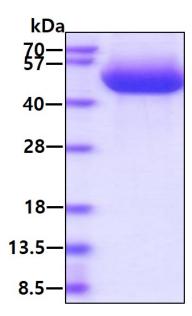
QHHGVTKCNI TCSKMTSKIP VALLIHYQQN QASCGKRAII LETRQHRLFC ADPKEQWVKD AMQHLDRQAA ALTRNGGTFE KQIGEVKPRT TPAAGGMDES VVLEPEATGE SSSLEPTPSS QEAQRALGTS PELPTGVTGS SGTRLPPTPK AQDGGPVGTE LFRVPPVSTA ATWQSSAPHQ PGPSLWAEAK TSEAPSTQDP STQASTASSP APEENAPSEG QRVWGQGQSP RPENSLEREE MGPVPAHTDA FQDWGPGSMA HVSVVPVSSE GTPSREPVAS GSWTPKAEEP IHATMDPQRL GVLITPVPDA QAATR<LEHHH HHH>

#### **General References**

Conroy MJ., et al. (2018) Front Immunol. 9:1867. Hoffmann-Vold AM., et al. (2018) PLoS One. 13:e0206545.

### **DATA**

#### **SDS-PAGE**



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

