

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

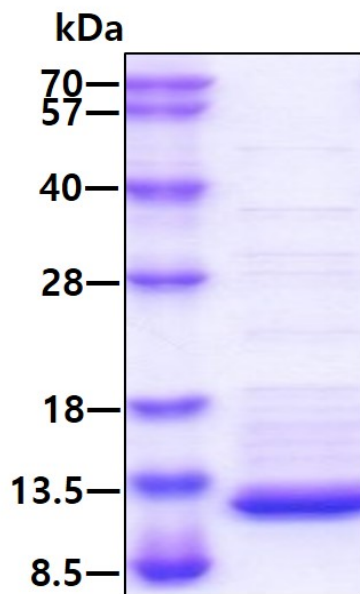
MGSSHHHHHH SGLVPRGSH MQHHGVTKCN ITCSKMTSKI PVALLIHYQQ NQASCGKRAI ILETRQHRLF CADPKEQWVK
DAMQHLDRQA AALTRNG

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



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