

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

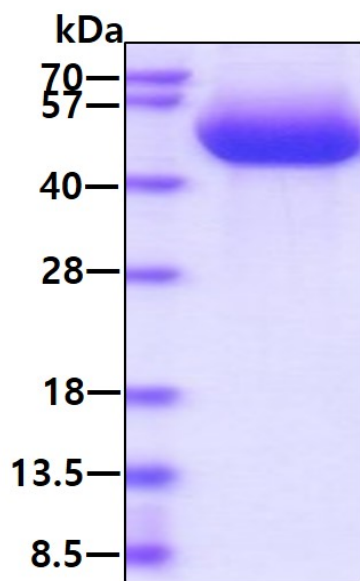
QHHGVTKCNI TCSKMTSKIP VALLIHYQQN QASCGKRAII LETRQHRLFC ADPKEQWVKD AMQHLDQRQA ALTRNGGTFE
 KQIGEVKPRP TPAAGGMDES VVLEPEATGE SSSLEPTPSS QEAQRALGTS PELPTGVTGS SGTRLPPTPK AQDGGPVGTE
 LFRVPPVSTA ATWQSSAPHQ PGPSLWAEAK TSEAPSTQDP STQASTASSP APEENAPSEG QRVWGGQSQSP RPENSLEREE
 MGPVPAHTDA FQDWGPGSMA HVSVPVVSSE GTPSREPVAS GSWTPKAEAP 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.