



Synonym

CX3CL1, Fractalkine

Source

Cynomolgus CX3CL1 Protein, His Tag (CX1-C5222) is expressed from human 293 cells (HEK293). It contains AA Gly 24 - Ala 352 (Accession # [A0A872TN34-1](#)).

Predicted N-terminus: Gly 24

Molecular Characterization

CX3CL1(Gly 24 - Ala 352)
A0A872TN34-1 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 36.5 kDa. The protein migrates as 50-75 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

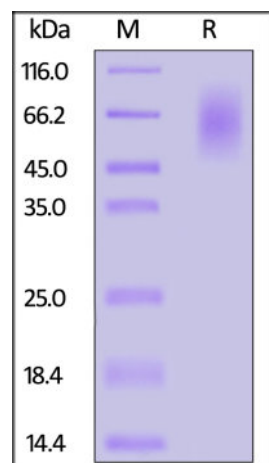
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

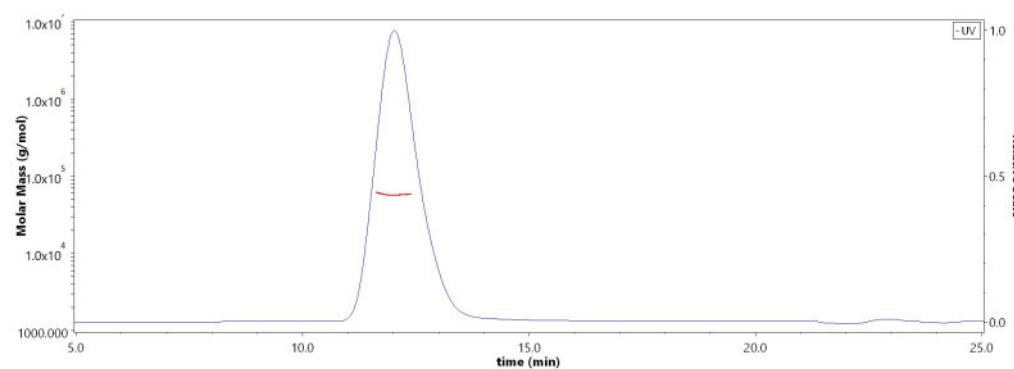
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Cynomolgus CX3CL1 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

SEC-MALS



The purity of Cynomolgus CX3CL1 Protein, His Tag (Cat. No. CX1-C5222) is more than 90% and the molecular weight of this protein is around 50-65 kDa verified by SEC-MALS.

[Report](#)

Background

Fractalkine is also known as C-X3-C motif chemokine 1 (CX3CL1) and neurotactin. Fractalkine is a large cytokine protein of 373 amino acids, it contains multiple domains and is the only known member of the CX3C chemokine family. Fractalkine is found commonly throughout the brain, particularly in neural cells, and its



Cynomolgus CX3CL1 / Fractalkine Protein, His Tag (MALS verified)

Catalog # CX1-C5222



BIOSYSTEMS
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receptor is known to be present on microglial cells. It has also been found to be essential for microglial cell migration. CX3CL1 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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.

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10/20/2023