

Product Datasheet

RecombinantFractalkine/CX3CL1,Rat (orb1494649)

Description

Chemokine (C-X3-C motif) ligand 1 (CX3CL1) is a large cytokine protein of 373 amino acids. It contains multiple domains and is the only known member of the CX3C chemokine family. It is also commonly known under the names fractalkine (in humans) and neurotactin (in mice). The polypeptide structure of CXC3L1 differs from the typical structure of other chemokines. For example, the spacing of the characteristic N-terminal cysteinesis different; there are three amino acids separating the initial pair of cysteines in CX3CL1, while there are none in CC chemokines and only one in CXC chemokines. CX3CL1 is produced as a long protein (with 373-amino acid in humans) with an extended mucin-like stalk and a chemokine domain on top. The mucin-like stalk allows it to bind to the surface of certain cells. Soluble CX3CL1 potently chemoattracts T cells and monocytes, while the cell-bound chemokine promotes strong adhesion of leukocytes to activated endothelial cells, where it is primarily expressed. CX3CL1 can signal through the chemokine receptor CX3CR1.Recombinant rat Fractalkine/CX3CL1 produced in HEK293 cells is a polypeptide chain containing 310 amino acids. A fully biologically active molecule, rrFractalkine/CX3CL1 has a molecular mass of 70-90 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic

techniques at GenScript.

Endotoxins < 0.2 EU/µg, determined by LAL method.

Preservatives Lyophilized after extensive dialysis against PBS.

Form/Appearance Lyophilized after extensive dialysis against PBS.

Lyophilized recombinant Rat Fractalkine/CX3CL1 remains stable up to 6 months Storage

at -80°C from date of receipt. Upon reconstitution, recombinant Rat

Fractalkine/CX3CL1 should be stable up to 1 week at 4°C or up to 2 months at -

20°C.

Note For research use only

Application notes Reconstituted in ddH2O or PBS at 100µg/ml.



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Protein Sequence QHLGMTKCNITCHKMTSPIPVTLLIHYQLNQESCGKRAIILETRQHRHFCADPKEKWVQDA

MKHLDHQTAALTRNGGKFE

KRVDNVTPRITSATRGLSPTALAKPESATVEDLTLEPTAISQEARRPMGTSQEPPAAVTGSSP

STSKAQDAGLAAKPQST

GISEVAAVSTTIWPSSAVYQSGSSLWAEEKATESPPTIALSTQASTTSSPKQNVGSEGQPPW

VQEQDSTPEKSPGPEETN

PVHTDIFQDRGPGSTVHPSVAPTSSEKTPSPELVASGSQAPKVEEPIHATADPQKLSVFITPV

PDSQAAT

Purity > 98% as analyzed by SDS-PAGE.

Source HEK 293

MW 70-90 kDa, observed by reducing SDS-PAGE.

Expiration Date 6 months from date of receipt.

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