

Fractalkine/CX3CL1 Protein, Human (315a.a, HEK293, His)

Cat. No.:	HY-P72685
Synonyms:	Fractalkine; C-X3-C motif chemokine 1; Neurotactin; CX3CL1; FKN; NTT; SCYD1
Species:	Human
Source:	HEK293
Accession:	P78423 (Q25-R339)
Gene ID:	6376
Molecular Weight:	50-90 kDa

PROPERTIES

AA Sequence	<div> <div>Q H H G V T K C N I</div> <div>L E T R Q H R L F C</div> <div>K Q I G E V K P R T</div> <div>Q E A Q R A L G T S</div> <div>L F R V P P V S T A</div> <div>S T Q A S T A S S P</div> <div>M G P V P A H T D A</div> <div>G S W T P K A E E P</div> </div> <div> <div>T C S K M T S K I P</div> <div>A D P K E Q W V K D</div> <div>T P A A G G M D E S</div> <div>P E L P T G V T G S</div> <div>A T W Q S S A P H Q</div> <div>A P E E N A P S E G</div> <div>F Q D W G P G S M A</div> <div>I H A T M D P Q R L</div> </div> <div> <div>V A L L I H Y Q Q N</div> <div>A M Q H L D R Q A A</div> <div>V V L E P E A T G E</div> <div>S G T R L P P T P K</div> <div>P G P S L W A E A K</div> <div>Q R V W G Q G Q S P</div> <div>H V S V V P V S S E</div> <div>G V L I T P V P D A</div> </div> <div> <div>Q A S C G K R A I I</div> <div>A L T R N G G T F E</div> <div>S S S L E P T P S S</div> <div>A Q D G G P V G T E</div> <div>T S E A P S T Q D P</div> <div>R P E N S L E R E E</div> <div>G T P S R E P V A S</div> <div>Q A A T R</div> </div>
Biological Activity	Measured by its binding ability in a functional ELISA.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2 or PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Fractalkine/CX3CL1 is a chemokine that serves as a ligand for both CX3CR1 and integrins ITGA4:ITGB3 and ITGA4:ITGB1. Its signaling through the CX3CR1-CX3CL1 pathway plays various roles in different tissue compartments, including immune
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response, inflammation, cell adhesion, and chemotaxis. It regulates leukocyte adhesion and migration at the endothelium and can activate integrins in both a CX3CR1-dependent and CX3CR1-independent manner. In the presence of CX3CR1, it activates integrins by binding to the classical ligand-binding site (site 1), while in the absence of CX3CR1, it binds to a second site (site 2) in integrins that is distinct from site 1 and enhances the binding of other integrin ligands to site 1. The soluble form of Fractalkine/CX3CL1 acts as a chemotactic factor for T-cells and monocytes but not neutrophils.

Caution: Product has not been fully validated for medical applications. For research use only.

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