

Fractalkine/CX3CL1 Protein, Human (S199N, CHO)

Cat. No.:	HY-P7355
Synonyms:	rHuFractalkine/CX3CL1; Fractalkine; CX3CL1; FKN; SCYD1; Neurotactin; NTT
Species:	Human
Source:	CHO
Accession:	P78423 (Q25-R339, S199N)
Gene ID:	6376
Molecular Weight:	50-75 kDa

PROPERTIES

AA Sequence	<p> Q H H G V T K C N I T C S K M T S K I P V A L L I H Y Q Q N Q A S C G K R A I I L E T R Q H R L F C A D P K E Q W V K D A M Q H L D R Q A A A L T R N G G T F E K Q I G E V K P R T T P A A G G M D E S V V L E P E A T G E S S S L E P T P S S Q E A Q R A L G T S P E L P T G V T G S S G T R L P P T P K A Q D G G P V G T E L F R V P P V S T A A T W Q S S A P H Q P G P S L W A E A K T S E A P S T Q D P S T Q A S T A S S P A P E E N A P S E G Q R V W G Q G Q S P R P E N S L E R E E M G P V P A H T D A F Q D W G P G S M A H V S V V P V S S E G T P S R E P V A S G S W T P K A E E P I H A T M D P Q R L G V L I T P V P D A Q A A T R </p>
Biological Activity	The EC ₅₀ is <1.5 µg/mL as measured on Ca ²⁺ mobilization assay in CHO-K1/Gα15/hCX3CR1 cells (human Gα15 and hCX3CR1 stably expressed in CHO-K1 cells).
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 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 from date of receipt. 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 is the only member of the CX3C chemokine family so far. It is expressed in many cell types such as hematopoietic
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cells, endothelial cells, epithelial cells, smooth muscle cells, dendritic cells, neurons, and fibroblasts. Fractalkine exists in two forms that have distinct cellular functions. The soluble form is a chemoattractant for cells expressing the CX3CR1 receptor. The membrane-bound form functions as an adhesion molecule that promotes adhesion and migration^[1].

REFERENCES

[1]. Liu JF, et al. Fractalkine/CX3CL1 induced intercellular adhesion molecule-1-dependent tumor metastasis through the CX3CR1/PI3K/Akt/NF- κ B pathway in human osteosarcoma. *Oncotarget*. 2016 Aug 12;8(33):54136-54148.

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

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