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Fractalkine Human

Fractalkine Human Recombinant (CX3CL1)
CHK0043

Product Overview

Name	Fractalkine Human
Description	
Fractalkine Human Recombinant (CX3CL1)	
Accession (Primary)	P78423
Synonyms	
Fractalkine, CX3CL1, Neurotactin, CX3C membrane-anchored chemokine, Small inducible cytokine D1, NTN, NTT, CXC3, CXC3C, SCYD1, ABCD-3, C3Xkine.	
Introduction	
Fractalkine soluble form is chemotactic for t-cells and monocytes, but not for neutrophils. Fractalkine membrane-bound form promotes adhesion of those leukocytes to endothelial cells. Fractalkine regulates leukocyte adhesion and migration processes at the endothelium and binds to CX3CR1. Natural Human Fractalkine is produced as a long protein (373-amino acid) with an extended mucin-like stalk and a chemokine domain on top. The mucin-like stalk permits it to bind to the cell surface. Fractalkine gene is located on human chromosome 16 along with some CC chemokines known as CCL17 and CCL22.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The CX3CL1 was lyophilized from a 0.2 μm filtered concentrated (1.0 mg/ml) solution in 20mM Phosphate buffer, pH 7.4, 50mM NaCl.	
Stability	
Lyophilized CX3CL1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CX3CL1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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QHHGVTKCNITCSKMTSKIPVALLIHYQQNQASCGKRAIILETRQHRLFCADPKEQW VKDAMQHLDRQAAALTRNG.

Biological Activity

The Biological activity is calculated by its ability to chemoattract human T-Lymphocytes using a concentration range of 5.0-10.0 ng/ml corresponding to a Specific Activity of 100,000-200,000IU/mg.

Solubility

It is recommended to reconstitute the lyophilized CX3CL1 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

References

Title: Glial Cell Line-Derived Neurotrophic Factor and Neurturin Inhibit Neurite Outgrowth and Activate RhoA through GFR?2b, an Alternatively Spliced Isoform of GFR?2. Publication: The Journal of Neuroscience, 23 May 2007, 27(21): 5603-5614; doi: 10.1523/?JNEUROSCI.4552-06.2007. Link: Fractalkine prospec publication Applications: GFR?2 when activated by NTN, it inhibits neurite outgrowth induced by GFR?1a, GFR?2a, and GFR?2c isoforms.

Precautions

Fractalkine Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P78423)