

## 32-1885: Fractalkine Recombinant Protein

**Alternative Name** Fractalkine,CX3CL1,Neurotactin,CX3C membrane-anchored chemokine,Small inducible cytokine  
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D1,NTN,NTT,CXC3,CXC3C,SCYD1,ABCD-3,C3Xkine.

### Description

Source : Escherichia Coli. Fractalkine Human Recombinant- produced in E.Coli is a single,non-glycosylated, polypeptide chain containing 76 amino acids and having a molecular mass of 8638 Dalton. The Fractalkine is purified by proprietary chromatographic techniques. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** The CX3CL1 was lyophilized from a 0.2µm filtered concentrated (1.0 mg/ml) solution in 20mM Phosphate buffer, pH 7.4, 50mM NaCl.  
**Storage condition :** 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.  
**Amino Acid :** QHHGVTKCNITCSKMTSKIPVALLIHYQQNQASCGKRAIILETRQHRLFCADPKEQW  
VKDAMQHLDRQAAALTRNG.

### Application Note

It is recommended to reconstitute the lyophilized CX3CL1 in sterile 18MΩ·cm H<sub>2</sub>O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. 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.

