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## Product Data Sheet

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Product Name: Fractalkine Human  
 Cat. No.: GP21101  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Fractalkine; CX3CL1; Neurotactin; CX3C membrane-anchored chemokine; Small inducible cytokine D1; NTN; NTT; CXC3; CXC3C; SCYD1; ABCD-3; C3Xkine.		
Amino Acid Sequence	QHHGVTKCNITCSKMTSKIPVALLIHYQQNQASCGKRAIILETRQHRLFCADPKEQWVKDAMQHLDLRQAAALTRNG.		
Solubility	It is recommended to reconstitute the lyophilized CX3CL1 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The CX3CL1 was lyophilized from a 0.2µm filtered concentrated (1.0 mg/ml) solution in 20mM Phosphate buffer, pH 7.4, 50mM NaCl.		

### 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.

### 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.

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

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### Stability

Lyophilized CX3CL1 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution CX3CL1 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

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.

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