
Product Data Sheet

Product Name: Fractalkine Rat
 Cat. No.: GP21103
 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	QHLGMTKCNI TCHKMTSPIP VTLLIHYQLN QESCGKRAII LETRQHRHFC ADPKEKWVQD AMKHLDHQTA ALTRNG		
Solubility	It is recommended to reconstitute the lyophilized Fractalkine in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.		

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

Determined by its ability to chemoattract human monocytes using a concentration range of 5.0-10.0 ng/ml, corresponding to a specific activity of 100,000-200,000units/mg.

Stability

Lyophilized FractalkineRat although stable at room temperature for 3 weeks, should be

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stored desiccated below -18°C . Upon reconstitution Fractalkine should be stored at 4°C between 2-7 days and for future use below -18°C .Please prevent freeze-thaw cycles.

Background

Fractalkine Rat Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 76 amino acids and having a molecular mass of 8.7kDa.The Fractalkine is purified by proprietary chromatographic techniques.

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