



RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human Fractalkine (CX3CL1)

Catalog No.
228-10493

Source
Escherichia Coli.

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.

Description:

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.

Source:

Escherichia Coli.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

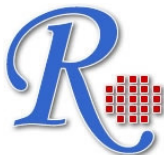
Formulation:

The CX3CL1 was lyophilized from a 0.2µm filtered concentrated (1.0 mg/ml) solution in 20mM Phosphate buffer, pH 7.4, 50mM NaCl.

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.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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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:

QHHGVTKCNITCSKMTSKIPVALLIHYQQNQASCGKRAIILETRQHRLFCADPKEQW
VKDAMQHLDLRQAAALTRNG.

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.

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