



Product Datasheet

Product Name	Fractalkine Human Recombinant (CX3CL1)
Cata No	CB500035
Source	Escherichia Coli
Synonyms	Fractalkine, CX3CL1, Neurotactin, CX3C membrane-anchored chemokine, Small inducible cytokine D1, NTN, NTT, CXC3, CXC3C, SCYD1, ABCD-3, C3Xkine.

Description

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.

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.

Purity

Greater than 97.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Storage

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).

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

Amino acid sequence

QHHGVTKCNITCSKMTSKIPVALLIHQQNQASCG
KRAIILETRQHRLFCADPKEQW
VKDAMQHLLDRQAAALTRNG.

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