

Product Data Sheet

Cat # RP-1004

Recombinant Human Fractalkine (CX3CL1)

Size: 5 ug

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. The Biological activity is calculated by its ability to chemoattract human T-Lymphocytes using a concentration range of 5.0-10.0 ng/ml

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

Application & Suggested Dilutions: 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. Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Users must optimize the appropriate concentration and conditions for each assay.

Storage & 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.** If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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