

# Recombinant Human Fractalkine (CX3CL1)

Cat No:HR2R1434

For research use only

## Overview

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Quantity           | 20 ?g                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Symbol        | CX3CL1                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene ID            | 6376                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Accession          | P78423                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Alternative Name   | C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1                                                                                                                                                                                                                                                                                                                                                           |
| Species            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Source             | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Description        | Fractalkine is a type I membrane protein that signals through the CX3CR1 receptor. The extracellular domain of Fractalkine is released by protease cleavage ? producing soluble Fractalkine. Fractalkine has been found in many tissues and shown to be up-regulated in endothelial cells and microglia in response to inflammatory signals. Fractalkine is also involved in leukocyte adhesion as well as attracting monocytes, microglia cells and NK cells. |
| Functions          | Measured by its ability to chemoattract BaF3 mouse pro-B cells transfected with mouse CX3CR1. The ED(50) for this effect is typically 20?100 ng/mL                                                                                                                                                                                                                                                                                                             |
| Formulation        | Lyophilized from a 0.2 ?m filtered solution in PBS with BSA as a carrier protein                                                                                                                                                                                                                                                                                                                                                                               |
| Solubility         | Reconstitute at 25 ?g/mL in sterile PBS containing at least 0.1% human or bovine serum albumin                                                                                                                                                                                                                                                                                                                                                                 |
| Appearance         | Lyophilized Powder                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Molecular Weight   | 8.9                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Purity             | >95% as determined by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Concentration      | <1.0 EU/?g of recombinant protein as determined by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                             |
| Shipping Condition | Ambient Temperature                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Storage Condition  | The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2? - 8°C for one month, or at -20°C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.                                                                                                                                              |