

Datasheet for 009-001-H49-1000**rHuman Fractalkine (CX3CL1) Protein****Overview**

Description:	Human Fractalkine (CX3CL1) Recombinant Protein - 009-001-H49-1000
Item No.:	009-001-H49-1000
Size:	1 mg
Applications:	Cellular Assay
Origin:	Human
Expressed in:	E. coli

Product Details

Background:	Fractalkine, also known as CX3CL1, is an atypical chemokine that was the first of a fourth chemokine motif (CX3C). It is thought to function as a T cell and monocyte chemottractant and is produced by non-haemopoietic cells. Fractalkine is made in a soluble and membrane bound form in activated endothelial cells which is thought to promote adhesion of leukocytes. Recombinant human Fractalkine is a non-glycosylated protein, containing 76 amino acids, with a molecular weight of 8.6 kDa.
Synonyms:	C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1
Species of Origin:	Human
Expressed in:	E. coli
Type:	Recombinant Protein
Low Endotoxin:	Yes

Target Details

Gene Name:	CX3CL1
Purity/Specificity:	Fractalkine (CX3CL1) purity was determined to be greater than 98% as determined by analysis by HPLC, UV-Spectroscopy at 280nm and by reducing and non-reducing SDS-pAGE.
Relevant Links:	• UniProtKB - P78423

Application Details

Suggested Applications:	Cellular Assay (Based on references)
Application Note:	Fractalkine Recombinant Protein has been tested by biological activity and is suitable as a control for polyclonal or monoclonal anti-Fractalkine in immunological assays.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
Other:	Endotoxin Level: Measured by kinetic LAL analysis and is typically ≤ 1 EU/ μ g protein. Biologic Activity: The activity is determined by the dose dependent chemotaxis of human PBMCs and is typically starting between 10-100 ng/mL.

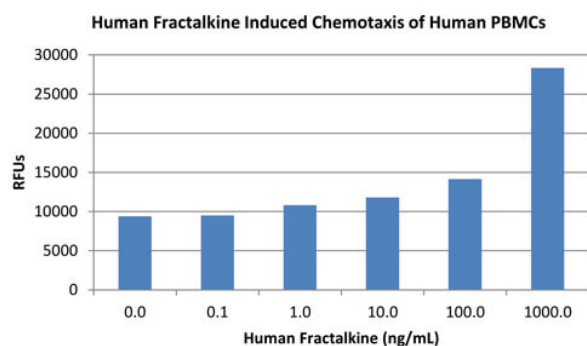
Formulation

Physical State:	Lyophilized
Buffer:	0.1% Trifluoroacetic acid
Preservative:	None
Stabilizer:	None
Reconstitution Volume:	1.0 mL
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store vial at 4° C prior to restoration. Dilute only prior to immediate use. Maintain sterility. This product DOES NOT contain preservative. DO NOT VORTEX. We recommend adding a carrier protein such as HSA or BSA to 0.1% (i.e. 1.0 mg/mL). For best results aliquot contents and freeze at -20° C or colder. Avoid cycles of freezing and thawing. Centrifuge vial before each opening to dislodge contents from the cap and to clarify if contents are not clear after standing at room temperature.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Figure

Bioactivity of Human Fractalkine (CX3CL1) Recombinant Protein. Human PBMCs were allowed to migrate to Human Fractalkine at (0, 0.1, 1, 10, 100 and 1000 ng/mL). After 4 hours, cells that migrated were counted using a luminescent substrate and displayed on the bar graph above. Significant increases in migration over basal levels were seen in response to Human Fractalkine detectable starting at between 10-100 ng/mL.

Disclaimer

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