

Recombinant Human Fractalkine/CX3CL1

Information

Gene ID	6376		
Accession #	P78423		
Alternate Names	C-X3-C motif chemokine 1, CX3C membrane-anchored chemokine, Neurotactin, Small-inducible cytokine D1		
Source	Escherichia coli.		
M.Wt	Approximately 8.6 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids and comprises only the chemokine domain of Human Fractalkine.		
AA Sequence	QHHGVTKCNI TCSKMTSKIP VALLIHYQQN QASCGKRAII LETRQHRLFC ADPKEQWVKD AMQHLDRQAA ALTRNG		
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.		
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution		
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.		
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.		
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration of 5.0-10 ng/ml.		
Shipping Condition	Gel pack.		
Handling	Centrifuge the vial prior to opening.		
Usage	For Research Use Only! Not to be used in humans.		

Components and Storage

Components	5µg	100μg	500µg
Recombinant Human Fractalkine/CX3CL1	5µg	100µg	500µg

Use a manual defrost freezer and avoid repeated freeze-thaw cycles

- 12 months from date of receipt, -20 to -70 °C as supplied
- 1 month, 2 to 8 °C under sterile conditions after reconstitution
- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 97 % by SDS-PAGE and HPLC analyses.	P Entre Pro-
Endotoxin	Less than 1 EU/µg of rHuFractalkine/CX3CL	1 as determined by LAL method.

Description

CX3CL1 recently identified through bioinformatics is the only known member of the CX3C chemokine family and it is also commonly known under the names fractalkine (in humans) and neurotactin (in mice). Unlike other known chemokines, CX3CL1 is a type 1 membrane protein containing a chemokine domain tethered on a long mucinlike talk. The soluble form of CX3CL1 is chemotactic for T-cells and monocytes, but not for neutrophils. In addition, it may play a role in regulating leukocyte adhesion and migration processes at the endothelium. Recombinant Human CX3CL1 which is a single non-glycosylated polypeptide chains contains 76 amino acids and it shares approximately 78 % and 83 % amino acid sequence homology with the murine and rat protein.

Reference

- 1. Umehara H, Bloom ET, Okazaki T, et al. 2004. Arterioscler Thromb Vasc Biol. 24:34-40
- 2. Umehara H, Tanaka M, Sawaki T, et al. 2006. Mod Rheumatol. 16:124-30
- 3. Bazan JF, Bacon KB, Hardiman G, et al. 1997. Nature. 385:640-4
- 4. Mizoue LS, Bazan JF, Johnson EC, et al. 1999. Biochemistry. 38:1402-14.

APExBIO Technology

www.apexbt.com

7505 Fannin street, Suite 410, Houston, TX 77054.

Tel: +1-832-696-8203 | Fax: +1-832-641-3177 | Email: info@apexbt.com