

Recombinant Rat Fractalkine/CX3CL1

#R00455

Size: 5 µg/100 µg/500 µg

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.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

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 Rat CX3CL1 contains 76 amino acids and it shares approximately 86 % and 83 % amino acid sequence homology with the murine and human protein.

AA Sequence

QHLGMTKCNITCHKMTSPIPVTLIIHYQLNQESCGKR
AIILETRQHRHFCADPKEKWVQDAMKHLDHQTAALTR

NG

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.

Product Specification

Synonyms	CX3C Membrane-anchored Chemokine, Neurotactin, Small-inducible Cytokine D1
Accession	O55145
GeneID	89808
Species	Rat
Source	Escherichia coli.
Molecular Weight	Approximately 8.8 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids and comprises only the chemokine domain of Rat Fractalkine.
Purity	> 95 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by

a chemotaxis bioassay using human monocytes is in a concentration of 5.0-10 ng/ml.

Physical Appearance Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation Lyophilized from a 0.2 µm filtered concentrated solution in 2× PBS, pH 7.4.

Endotoxin Less than 1 EU/µg of rRtFractalkine/CX3CL1 as determined by LAL method.
