



# Recombinant Protein Technical Manual

## Recombinant Mouse CX3CL1/Fractalkine Protein (His Tag) RPES0185

### Product Data:

**Product SKU:** RPES0185

**Size:** 10µg

**Species:** Mouse

**Expression host:** Human Cells

**Uniprot:** O35188

### Protein Information:

**Molecular Mass:** 34.3 kDa

**AP Molecular Mass:** 58-60 kDa

**Tag:** C-6His

**Bio-activity:**

**Purity:** > 95 % as determined by SDS-PAGE

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Fractalkine; C-X3-C motif chemokine 1; CX3C membrane-anchored chemokine; Neurotactin; Small-inducible cytokine D1; Cx3c; Fkn; Scyd1; CXC3; CXC3C; ABCD-3; SCYD1; C3Xkine; NTN; NTT

## Immunogen Information:

**Sequence:** Gln25-Arg337

## Background:

Fractalkine(CX3CL1) is a single-pass type I membrane protein and belongs to the intercrine delta family. It consists of an extracellular NH<sub>2</sub>-terminal domain, a mucin-like stalk, a transmembrane  $\alpha$  helix, and a short cytoplasmic tail. CX3CL1 exists in two forms: as a membrane-anchored or as a shed 80-95K glycoprotein. Soluble CX3CL1 is generated by limited proteolysis on the cell surface, and a disintegrin and metallopeptidase 10 (ADAM10) and ADAM17/tumor necrosis factor- $\alpha$ -converting enzyme (ADAM17/TACE) participate in this shedding. It has been suggested that ADAM10 acts in the constitutive shedding, and ADAM17 acts in response to cell activation. The protein may play a role in regulating leukocyte adhesion and migration processes at the endothelium.