

HUMAN CX3CR1 PROTEIN, HFC TAG**Cat.#:** 11677**Product Name:** Human CX3CR1 Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** CCRL1;CMKBRL1;CMKDRI;GPR13;GPRV28;V28**Target:** CX3CR1 (CX3C motif chemokine receptor 1)**UNIPROT ID:** P49238**Description:** Recombinant Human CX3CR1 Protein with C-terminal human Fc tag

Background: CX3C motif chemokine receptor 1 (CX3CR1) is known as the fractalkine receptor or G-protein coupled receptor 13 (GPR13). It is a transmembrane protein of the G protein-coupled receptor 1 (GPCR1) family. The receptor binds the inflammatory chemokine CX3CL1 (also called neurotactin in mice or fractalkine in humans). This endogenous ligand solely binds to CX3CR1 receptor. Interaction of CX3CR1 with CX3CL1 can mediate migration, adhesion and retention of leukocytes, because Fractalkine exists as membrane-anchored protein (mCX3CL1) as well as cleaved soluble molecule (sCX3CL1) due to proteolysis by metalloproteinases (MPPs). The shredded form carries out typical function of conventional chemokines, the chemotaxis, while the membrane-bound protein behaves as adhesion molecule for facilitation of diapedesis.

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 29.7 kDa after removal of the signal peptide. The apparent molecular mass of CX3CR1-hFc is approximately 35–55 kDa due to glycosylation.

Molecular Characterization: CX3CR1(Met1–Thr31) hFc(Glu99–Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at –20°C to –80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at –80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



Figure 1. Human CX3CR1 Protein, hFc Tag on SDS-PAGE under reducing condition.