

HUMAN CXCL12 PROTEIN, HFC TAG**Cat.#:** 11679**Product Name:** Human CXCL12 Protein**Size :** 10 µg, 50 µg and 100 µg**Synonyms:** IRH;PBSF;SCYB12;SDF1;TLSF**Target:** CXCL12**UNIPROT ID:** P48061**Description:** Recombinant Human CXCL12 with N-terminal human Fc tag**Background:** This antimicrobial gene encodes a stromal cell-derived alpha chemokine member of the intercrine family. The encoded protein functions as the ligand for the G-protein coupled receptor, chemokine (C-X-C motif) receptor 4, and plays a role in many diverse cellular functions, including embryogenesis, immune surveillance, inflammation response, tissue homeostasis, and tumor growth and metastasis. Mutations in this gene are associated with resistance to human immunodeficiency virus type 1 infections. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Sep 2014]**Species/Host:** HEK293**Molecular Weight:** The protein has a predicted molecular mass of 34.7 kDa after removal of the signal peptide. The apparent molecular mass of hFc-CXCL12 is approximately 35–55 kDa due to glycosylation.**Molecular Characterization:** hFc(Glu99-Ala330) CXCL12(Lys22-Met93)**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.

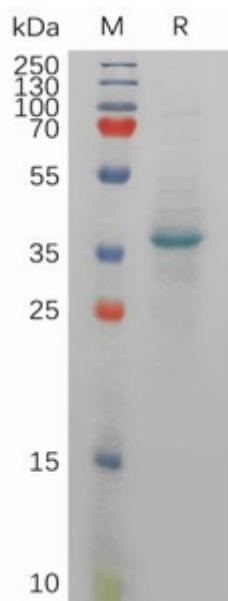


Figure 1. Human CXCL12 Protein, hFc Tag on SDS-PAGE under reducing condition.