

## HUMAN IL12RB1 PROTEIN, HIS TAG

**Cat.#:** 11652

**Product Name:** Human IL12RB1 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CD212;IL-12R-BETA1;IL12RB;IMD30

**Target:** IL12RB1

**UNIPROT ID:** P42701

**Description:** Recombinant Human IL12RB1 Protein with C-terminal 6xHis tag

**Background:** The protein encoded by this gene is a type I transmembrane protein that belongs to the hemopoietin receptor superfamily. This protein binds to interleukine 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. This protein forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this and IL12RB2 proteins was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. Mutations in this gene impair the development of interleukin-17-producing T lymphocytes and result in increased susceptibility to mycobacterial and Salmonella infections. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Feb 2014]

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 57.9 kDa after removal of the signal peptide. The apparent molecular mass of IL12RB1-His is approximately 70-100 kDa due to glycosylation.

**Molecular Characterization:** IL12RB1(Cys24-Glu540) 6×His tag

**Purity:** The purity of the protein is greater than 85% 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.

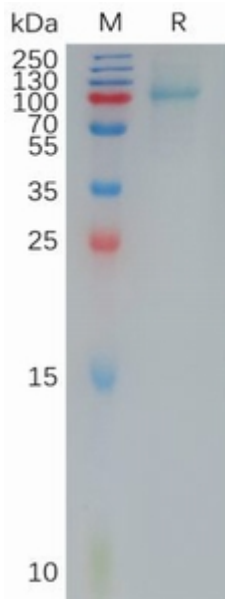


Figure 1. Human IL12RB1 Protein, His Tag on SDS-PAGE under reducing condition.