

## HUMAN CD114 PROTEIN, HIS TAG

**Cat.#:** 11203

**Product Name:** Human CD114 Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** CSF3R;D114;CSFR

**Target:** CD114

**UNIPROT ID:** Q99062

**Description:** Recombinant human CD114 protein with C-terminal 6xHis tag

**Background:** The protein encoded by this gene is the receptor for colony stimulating factor 3, a cytokine that controls the production, differentiation, and function of granulocytes. The encoded protein, which is a member of the family of cytokine receptors, may also function in some cell surface adhesion or recognition processes. Alternatively spliced transcript variants have been described. Mutations in this gene are a cause of Kostmann syndrome, also known as severe congenital neutropenia.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 67.5 kDa after removal of the signal peptide. The apparent molecular mass of CD114-His is approximately 100–110 kDa due to glycosylation.

**Molecular Characterization:** CD114(Glu25-Pro622) 6xHis tag

**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.

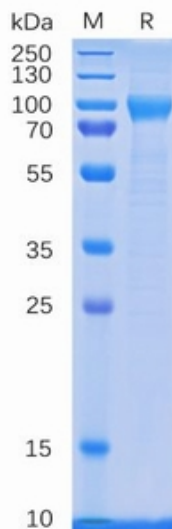


Figure 1. Human CD114 Protein, His Tag on SDS-PAGE under reducing condition.

**Human CD114, His tagged protein ELISA**  
0.1 µg of Human CD114, His tagged protein per well

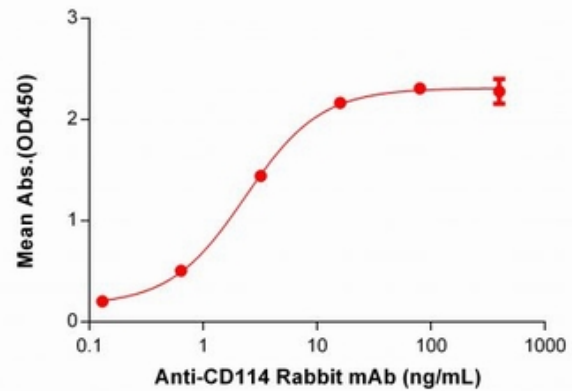


Figure 2. ELISA plate pre-coated by 1 µg/ml (100 µl/well) Human CD114 protein, His Tag (11203) can bind Anti-CD114 Rabbit mAb in a linear range of 0.128-16 ng/mL.