

## HUMAN EGFR PROTEIN, HIS TAG

**Cat.#:** 11218

**Product Name:** Human EGFR Protein

**Size:** 10 µg, 50 µg and 100 µg

**Synonyms:** EGFR;RBB;RBB1;ER1;IG61;ENA

**Target:** EGFR

**UNIPROT ID:** P00533

**Description:** Recombinant human EGFR Protein with C-terminal 6xHis tag

**Background:** The protein encoded by this gene is a transmembrane glycoprotein that is a member of the protein kinase superfamily. This protein is a receptor for members of the epidermal growth factor family. EGFR is a cell surface protein that binds to epidermal growth factor. Binding of the protein to a ligand induces receptor dimerization and tyrosine autophosphorylation and leads to cell proliferation. Mutations in this gene are associated with lung cancer.

**Species/Host:** HEK293

**Molecular Weight:** The protein has a predicted molecular mass of 69.4 kDa after removal of the signal peptide. The apparent molecular mass of EGFR-His is approximately 100-130 kDa due to glycosylation.

**Molecular Characterization:** EGFR(Leu25-Ser645) 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.

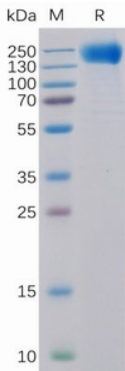


Figure 1. Human EGFR Protein, His Tag on SDS-PAGE under reducing condition.

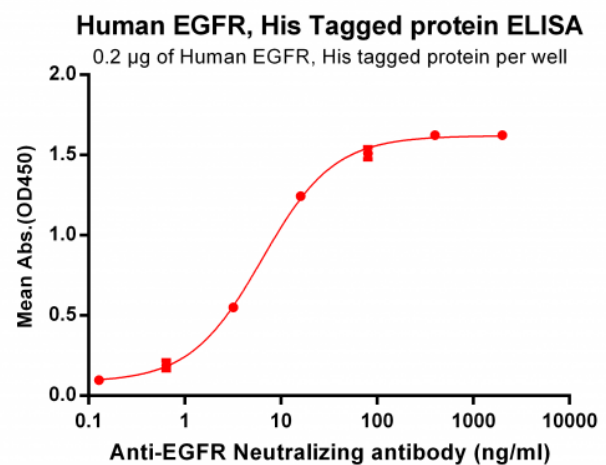


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human EGFR, His tagged protein (11218) can bind Anti-EGFR Antibody 28043 in a linear range of 0.64-80.0 ng/ml.