

HUMAN EGFRVIII PROTEIN, HIS TAG**Cat.#:** 11977**Product Name:** Human EGFRVIII Protein**Size:** 10 µg, 50 µg and 100 µg**Synonyms:** EGFR;RBB;RBB1;ER1;IG61;ENA**Target:** EGFRVIII**UNIPROT ID:** P00533**Description:** Recombinant Human EGFRVIII 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 39.5 kDa after removal of the signal peptide. The apparent molecular mass of EGFRVIII-His is approximately 55-100 kDa due to glycosylation.**Molecular Characterization:** EGFRVIII(Leu25-Ser645-267aa) 6xHis 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 EGFRVIII Protein, His Tag on SDS-PAGE under reducing condition.