

## MOUSE EGFR PROTEIN, HIS TAG

货号: 12186

产品全名: Mouse EGFR 蛋白

规格: 10/50/100 µg

基因符号 Epidermal growth factor receptor;Egfr

目标蛋白: EGFR

**UNIPROT ID:** Q01279

**描述:** Recombinant mouse EGFR protein with C-terminal 6xHis tag

**背景:** Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses (PubMed:8404850). Known ligands include EGF, TGFA/TGF- $\alpha$ , AREG, epigen/EPGN, BTC/betacellulin, epiregulin/EREG and HBEGF/heparin-binding EGF. Ligand binding triggers receptor homo- and/or heterodimerization and autophosphorylation on key cytoplasmic residues. The phosphorylated receptor recruits adapter proteins like GRB2 which in turn activates complex downstream signaling cascades. Activates at least 4 major downstream signaling cascades including the RAS-RAF-MEK-ERK, PI3 kinase-AKT, PLC $\gamma$ -PKC and STATs modules. May also activate the NF- $\kappa$ -B signaling cascade. Also directly phosphorylates other proteins like RGS16, activating its GTPase activity and probably coupling the EGF receptor signaling to the G protein-coupled receptor signaling. Also phosphorylates MUC1 and increases its interaction with SRC and CTNNB1/beta-catenin (By similarity). Plays a role in enhancing learning and memory performance (PubMed:20639532).[UniProtKB/Swiss-Prot Function]

**物种/宿主:** HEK293

**分子量:** The protein has a predicted molecular mass of 70.1kDa after removal of the signal peptide. The apparent molecular mass of mEGFR-His is approximately 100-130 kDa due to glycosylation.

**分子特征:** Mouse EGFR(Leu25-Ser647) 6xHis tag

**纯化:** 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.

**储存和运输:** Store at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$  for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at  $-80^{\circ}\text{C}$  (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

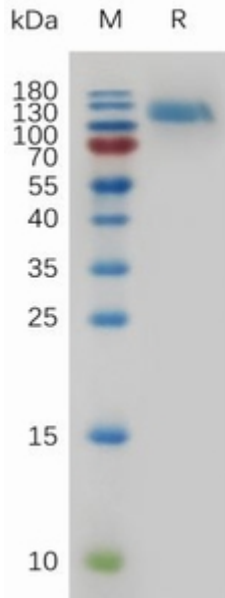


Figure 1. Mouse EGFR Protein, His Tag on SDS-PAGE under reducing condition.