

PRODUCT INFORMATION

EGFR Target

Synonyms Epidermal growth factor receptor; Egfr

Recombinant mouse EGFR protein with C-terminal Description

6×His tag

Delivery In Stock **Uniprot ID** Q01279 **Expression Host HEK293**

C-6×His Tag Tag

Molecular

Molecular Weight

Mouse EGFR(Leu25-Ser647) 6×His tag Characterization

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. The purity of the protein is greater than 85% as determined by SDS-PAGE and Coomassie blue

Lyophilized from sterile PBS, pH 7.4. Normally 5 %

Purity

staining.

Formulation &

Background

- 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. 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

Storage & Shipping at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient

temperature.

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, PLCgamma-PKC and STATs minutes. May also adjuste 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

Function1

Usage Research use only Unconjugated Conjugate

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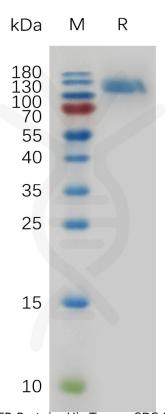


Figure 1. Mouse EGFR Protein, His Tag on SDS-PAGE under reducing condition.

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