

# Recombinant Human EGFR Protein, His-tagged

**Cat. No.** EGFR-025H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human EGFR (rhEGFR) Protein (NP_005219, 1-642aa), was expressed in human 293 cells (HEK293) with C-terminal 6×His tag.                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>ProteinLength</b>    | 1-642 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | 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. [provided by RefSeq, Jun 2016] |
| <b>Molecular Mass</b>   | rhEGFR contains C terminal 6×His Tag and has a calculated MW of 69.5 kDa. The predicted N-terminal is Leu 25. In DTT-reduced SDS-PAGE, protein migrates as 110-115 kDa.                                                                                                                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | Less than 0.01 ng endotoxin/1 g rhEGFR.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Purity</b>           | >95% purity as determined by SDS-PAGE of reduced rhEGFR.                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Notes</b>            | Research Use Only. Not for use in diagnostic or therapeutic procedures.                                                                                                                                                                                                                                                                                                                                                                                                                            |

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**Storage** Store at -20 centigrade in lyophilized state after receipt. For long term storage, upon reconstitution rhEGFR should be aliquot and store at -20 centigrade or -8 centigrade centigrade. Avoid repeated freeze-thaw cycles.

**Storage Buffer** Bulk protein in a 0.22 µ filtered solution of PBS, pH 7.4 and delivered as liquid formulation or lyophilized powder. Normally 5-8% trehalose and mannitol are added as protectants before lyophilization.

## GENE INFORMATION

**Gene Name** EGFR epidermal growth factor receptor [ Homo sapiens ]

**Official Symbol** EGFR

**Synonyms** EGFR; epidermal growth factor receptor; epidermal growth factor receptor (avian erythroblastic leukemia viral (v erb b) oncogene homolog), ERBB; ERBB1; erythroblastic leukemia viral (v erb b) oncogene homolog (avian); proto-oncogene c-ErbB-1; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; ERBB; HER1; mENA; PIG61;

**Gene ID** 1956

**mRNA Refseq** NM\_005228

**Protein Refseq** NP\_005219

**MIM** 131550

**UniProt ID** P00533

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