

Recombinant Human Epidermal Growth Factor Receptor, His-tagged

Cat. No. EGFR-315H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein, was expressed in HEK293 with C-terminal 6×His tag (calculated MW: 69.5 kDa; migrates as 110-115 kDa in DTT-reduced SDS-PAGE).
Species	Human
Source	HEK293
Description	The epidermal growth factor receptor (EGFR; ErbB 1; HER1 in humans) is the cell surface receptor for members of the The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-family) of extracellular protein ligands.[1] The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Mutations affecting EGFR expression or activity could result in cancer.
Form	Bulk protein in a 0.22 µm filtered solution of PBS, pH7.4 and delivered as lyophilized powder, Normally 2-7% Mannitol and Trehalose before lyophilization are 7% Mannitol and Trehalose before lyophilization are added as protectants. It is recommended to reconstitute the lyophilized rhEGFR in sterile dH2O.
Purity	>95% purity as determined by SDS-PAGE of reduced rhEGFR.

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Endotoxin	Less than 0.01 ng endotoxin 1 µg rhEGFR.
Storage	Stable in lyophilized state at 4°C for 1 year after receipt. Sterile stock solutions reconstituted are stable at 4°C for 2 months and at -20°C for 6 months. Avoid repeated freeze-thaw cycles.
GENE INFORMATION	
Gene Name	EGFR epidermal growth factor receptor [Homo sapiens]
Official Symbol	EGFR
Synonyms	EGFR; epidermal growth factor receptor; EC 2.7.10.1; ERBB; ERBB1; HER1; PIG61; mENA; receptor tyrosine-protein kinase erbB-1; avian erythroblastic leukemia viral (v-erb-b) oncogene homolog; cell growth inhibiting protein 40; cell proliferation-inducing protein 61; epidermal growth factor receptor (avian erythroblastic leukemia viral (v-erb-b) oncogene homolog); epidermal growth factor receptor (erythroblastic leukemia viral (v-erb-b) oncogene homolog, avian); EC 2.7.10; Proto-oncogene c-ErbB-1; OTTHUMP00000159661; OTTHUMP00000159662; OTTHUMP00000159663; OTTHUMP00000209210; OTTHUMP00000209211
Gene ID	1956
mRNA Refseq	NM_005228
Protein Refseq	NP_005219
MIM	131550
UniProt ID	P00533

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Chromosome Location	7p12
Pathway	Adherens junction; Calcium signaling pathway; Colorectal cancer; Cytokine-cytokine receptor interaction; Dorso-ventral axis formation; Endometrial cancer; Epithelial cell signaling in Helicobacter pylori infection; ErbB signaling pathway; Focal adhesion; Gap junction; Glioma; GnRH signaling pathway; MAPK signaling pathway; Melanoma; Non-small cell lung cancer; Pancreatic cancer; Prostate cancer; Regulation of actin cytoskeleton
Function	ATP binding; actin filament binding; double-stranded DNA binding; epidermal growth factor receptor activity; identical protein binding.

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