

## Recombinant Human EGFRviii protein, His-tagged

Cat. No. EGFR-286H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EGFR Protein (25-645aa, 30-297aa missing), was expressed in HEK293 with C-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	25-645 aa
<b>Description</b>	<p>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. 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. The type III EGF deletion-mutant receptor (EGFRvIII) is the most common mutation and was first identified in primary human glioblastoma tumors; EGFR gene amplification is correlated with the structural rearrangement of the gene. The EGFRvIII gene has an in-frame deletion of 801 base pairs, corresponding to exons 2–7 in the mRNA, resulting in the deletion of amino acids 30-297 in the extracellular domain and the generation of a glycine at the fusion point</p>
<b>Predicted N Terminal</b>	Leu 25
<b>Form</b>	Lyophilized from 0.22

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	µm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.
<b>Molecular Mass</b>	The protein has a calculated MW of 40.5 kDa. The protein migrates as 60-70 kDa on a SDS-PAGE gel under reducing (R) condition due to glycosylation.
<b>Endotoxin</b>	Less than 1.0 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by SDS-PAGE.
<b>Storage</b>	For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. No activity loss is observed after storage at: 4-8 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution.
<b>Reconstitution</b>	Reconstitute at 200 µg/mL in sterile deionized water.

## GENE INFORMATION

<b>Gene Name</b>	EGFR epidermal growth factor receptor [ Homo sapiens ]
<b>Official Symbol</b>	EGFR
<b>Synonyms</b>	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;

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<b>Gene ID</b>	1956
<b>mRNA Refseq</b>	NM_005228
<b>Protein Refseq</b>	NP_005219
<b>MIM</b>	131550
<b>UniProt ID</b>	P00533
<b>Chromosome Location</b>	7p12
<b>Pathway</b>	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Androgen Receptor Signaling Pathway, organism-specific biosystem; Arf6 signaling events, organism-specific biosystem; Axon guidance, organism-specific biosystem; Bladder cancer, organism-specific biosystem;
<b>Function</b>	ATP binding; MAPK/ERK kinase kinase activity; actin filament binding; double-stranded DNA binding; enzyme binding; epidermal growth factor-activated receptor activity; epidermal growth factor-activated receptor activity; identical protein binding; contributes_to nitric-oxide synthase regulator activity; nucleotide binding; protein binding; protein heterodimerization activity; protein phosphatase binding; protein tyrosine kinase activity; protein tyrosine kinase activity; protein tyrosine kinase activity; receptor activity; receptor signaling protein tyrosine kinase activity; signal transducer activity; transmembrane receptor protein tyrosine kinase activity; transmembrane receptor protein tyrosine kinase activity; transmembrane signaling receptor activity;

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