

## Recombinant Human EGFR, His-tagged, Biotinylated

Cat. No. EGFR-284H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EGFR (ErbB1) Protein (25-645aa), was expressed in human 293 cells (HEK293) with biotin conjugate (labeled with biotin based on rhEGFR Protein).
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	25-645 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. Multiple alternatively spliced transcript variants that encode different protein isoforms have been found for this gene.
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in PBS, pH7.4. Normally Trehalose are added as protectants before lyophilization.
<b>Molecular Mass</b>	Biotinylated rhEGFR, fused with 6xHis tag at the C-terminus, has a calculated MW of 69.5 kDa. The predicted N-terminus is Leu 25. DTT-reduced Protein migrates as 110-115 kDa due to glycosylation.

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<b>Endotoxin</b>	Less than 1.0 EU per µg of the Biotinylated rhEGFR by the LAL method.
<b>Purity</b>	>95% as determined by reduced SDS-PAGE.
<b>Storage</b>	Avoid repeated freeze-thaw cycles. No activity loss was observed after storage at: In lyophilized state for 1 year (4°C); After reconstitution under sterile conditions for 3 months (-70°C).
<b>Conjugation</b>	Biotin

## GENE INFORMATION

<b>Gene Name</b>	EGFR epidermal growth factor receptor [ <a href="#">Homo sapiens</a> ]
<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;
<b>Gene ID</b>	<a href="#">1956</a>
<b>mRNA Refseq</b>	<a href="#">NM_005228</a>
<b>Protein Refseq</b>	<a href="#">NP_005219</a>
<b>MIM</b>	<a href="#">131550</a>

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<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; contrib

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