

## Active Recombinant Human EGFR Protein, His-tagged

Cat. No. EGFR-202H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EGFR Protein extracellular domain (25-647aa, signal peptide removed), was expressed in CHO with C-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	CHO
<b>ProteinLength</b>	25-647 aa
<b>Description</b>	<p>As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF-<math>\alpha</math>, betacellulin, etc. EGFR protein plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation. Binding of a ligand induces EGFR protein homo- or heterodimerization, the subsequent tyrosine autophosphorylation and initiates various down stream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently.</p>
<b>Predicted N Terminal</b>	Leu 25
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4
<b>Bio-activity</b>	Measured by its binding ability in a functional ELISA.

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<b>Molecular Mass</b>	The recombinant mature human EGFR protein consists of 629 amino acids and has a calculated molecular mass of 69.6 KD.
<b>Endotoxin</b>	<1.0 EU/ug, LAL method
<b>Purity</b>	>95%(SDS-PAGE)
<b>Stability</b>	Stable for up to twelve months from date of receipt at -70 centigrade
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

## 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;
<b>Gene ID</b>	1956
<b>mRNA Refseq</b>	NM_005228
<b>Protein Refseq</b>	NP_005219

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<b>MIM</b>	131550
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<b>UniProt ID</b>	P00533
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