

## Active Recombinant Human EGFR, His-tagged

**Cat. No.** EGFR-30H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human EGFR Protein extracellular domain (NP_005219, 1-645aa), was produced in Human Cell with C-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	1-645 aa
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4
<b>Bio-activity</b>	<p>1. Measured by its binding ability in a functional ELISA. Immobilized Human EGF hFc at 2 <math>\mu</math>g/ml (100 <math>\mu</math>l/well) can bind Human EGFR His, the EC50 of Human EGFR His is 100-500 ng/mL.</p> <p>2. Captured Cetuximab (IgG1) on proA Chip can bind Human EGFR recombinant protein with an affinity constant of 1.07 M as determined in an SPR assay (Biacore T200).</p> <p>3. Loaded Cetuximab on ProA Biosensor, can bind Human EGFR protein, His &amp; AVI Tag with an affinity constant of 5.81nM as determined in BLI assay (ForteBio Octet Red384) (Routinely tested).</p>
<b>Molecular Mass</b>	The recombinant human EGF receptor consists of 630 amino acids and has a calculated molecular mass of 69.8 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 110 kDa protein in SDS-PAGE under reducing conditions.

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<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Purity</b>	> 95 % as determined by SDS-PAGE. >90% as determined by SEC-HPLC
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>GENE INFORMATION</b>	
<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
<b>MIM</b>	131550

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UniProt ID

P00533

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3/3

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