

Active Recombinant Human EGFR, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein extracellular domain (NP_005219, 1-645aa), was produced in Human Cell with C-terminal His tag.
Species	Human
Source	HEK293
ProteinLength	1-645 aa
Form	Lyophilized from sterile PBS, pH 7.4
Bio-activity	<p>1.Measured by its binding ability in a functional ELISA. Immobilized Human EGF hFc at 2 µg/ml (100 µl/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 μM as determined in an SPR assay (Biacore T200).</p> <p>3.Loaded Cetuximab on ProA Biosensor, can bind Human EGFR protein, His & AVI Tag with an affinity constant of 5.81nM as determined in BLI assay (ForteBio Octet Red384) (Routinely tested).</p>
Molecular Mass	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.

 Tel: 1-631-559-9269 1-516-512-3133


 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method
Purity	> 95 % as determined by SDS-PAGE. >90% as determined by SEC-HPLC
Storage	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.
Reconstitution	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.

GENE INFORMATION

Gene Name	EGFR epidermal growth factor receptor [Homo sapiens]
Official Symbol	EGFR
Synonyms	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;
Gene ID	1956
mRNA Refseq	NM_005228
Protein Refseq	NP_005219
MIM	131550

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



UniProt ID

P00533

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA