

Active Recombinant Human EGFR protein, IFc-tagged

Cat. No. EGFR-344H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGFR Protein (25-645aa), was expressed in HEK293 with C-terminal Llama IgG2b Fc tag.
Species	Human
Source	HEK293
ProteinLength	25-645 aa
Form	Lyophilized from 0.22 µm filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5. Normally trehalose is added as protectant before lyophilization.
Bio-activity	Immobilized Human EGF, His Tag at 5 µg/mL (100 µL/well) can bind Human EGF R, Llama IgG2b Fc Tag with a linear range of 0.2-5 ng/mL. Immobilized Human EGF R, Llama IgG2b Fc Tag at 2 µg/mL (100 µL/well) can bind Cetuximab with a linear range of 0.3-5 ng/mL. Please note that there may be a cross-reaction between anti-human IgG Fc antibodies and llama IgG Fc tag, also between anti-llama IgG Fc antibodies and human IgG Fc tag.
Molecular Mass	This protein carries a llama IgG2b Fc tag at the C-terminus. The protein has a calculated MW of 96.4 kDa. The protein migrates as 115-150 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Proteinlength	Leu25-Ser645

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Endotoxin	Less than 0.01 EU per µg by the LAL method.
Purity	>95% as determined by reduced SDS-PAGE.
Storage	For long term, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles. This product is stable after at: -20°C to -70°C for 12 months in lyophilized state; -70°C for 3 months under sterile conditions after reconstitution.
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

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MIM	131550
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UniProt ID	P00533
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