

Active Recombinant Human EGFR protein(Met1-Lys375), hFc-tagged

Cat. No. EGFR-689H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant Human EGFR Protein (NP_001333870.1, 1-375aa), was expressed in Insect Cells with C-terminal human IgG1 Fc tag.

Species

Human

Source

Insect Cells

ProteinLength

1-375 aa

Form

Lyophilized from sterile 100 mM Glycine, 10 mM NaCl, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Bio-activity

1. Immobilized EGF Protein, Human, Recombinant (ECD), HPLC-verified at 2 µg/mL (100 µL/well) can bind EGFR Protein, Human, Recombinant (Isoform VIII, hFc Tag) in functional ELISA. 2. Immobilized Anti-EGFR(MK)-IgG1 Antibody (Cetuximab) at 2 µg/mL (100 µL/well) can bind EGFR Protein, Human, Recombinant (Isoform VIII, hFc Tag), the EC50 is 4-13 ng/mL.

Molecular Mass


The recombinant human EGFR consists of 589 amino acids and predicts a molecular mass of 65.1 kDa.

Endotoxin

< 1.0 EU per µg protein as determined by the LAL method.

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Purity	> 95 % as determined by SDS-PAGE.
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
UniProt ID	P00533

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