

EGFR recombinant protein

EGFR Protein, Human, Recombinant (ECD, hFc Tag)

CATALOG #
AAA257396

HOST
HEK293 Cells

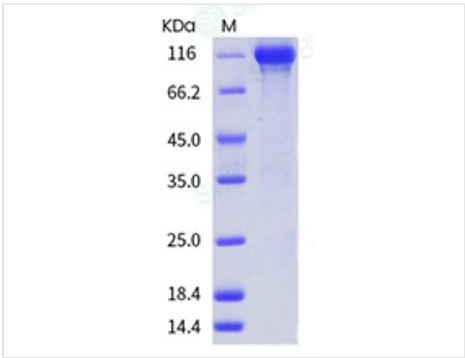
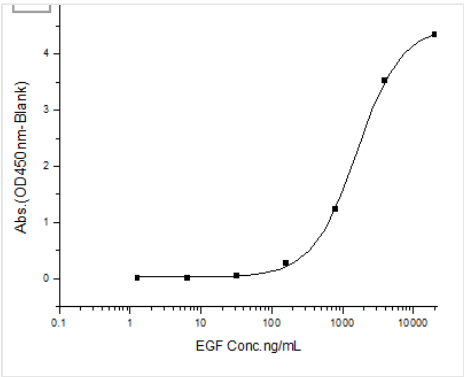
PRODUCT SYNONYMS

EGFR; EGFR Protein; Human; Recombinant (ECD; hFc Tag); Human EGFR/HER1/ErbB1 Protein (Fc Tag); epidermal growth factor receptor; ERBB Protein; ERBB1 Protein; HER1 Protein; mENA Protein; NISBD2 Protein; PIG61 Protein; EGFR recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>97 % as determined by SDS-PAGE. >85% as determined by SEC-HPLC
Form/Format	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Sequence Positions	860aa
Sequence	Met1-Ser64 5
Species	Human
Tag	hFc
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu25
Protein Construction	JA DNA sequence encoding the extracellular domain (Met 1-Ser 645) of human EGFR (NP_005219) was fused with the Fc region of human IgG1 at the C-terminus
Activity	Measured by its binding ability in a functional ELISA. Immobilized recombinant human EGF at 10ug/ml (100ul/well) can bind human EGFR with a linear range of 0.64-400ng/ml.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. Shipping: They are shipped out with blue ice pack

IMAGES



Application Data

Measured by its binding ability in a functional ELISA. Immobilized recombinant human EGF at 10 ug/ml (100 ul/well) can bind human EGFR with a linear range of 0.64-400 ng/ml.

Application Data

ADDITIONAL INFORMATION

Related Product Information for EGFR recombinant protein	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-alpha, 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.
Product Categories/Family for EGFR recombinant protein	Cancer Drug Targets Receptor Tyrosine Kinases (RTKs); EGFR Signaling Pathway
References	Schlessinger, J. (2000) Cell signaling by receptor tyrosine kinases. Cell 103(2): 211-25. Giaccone, G. (2005) HER1/EGFR-targeted agents: predicting the future for patients with unpredictable outcomes to therapy. Ann. Oncol. 16(4): 538-48. Yarden, Y., et al. (2001) Untangling the ErbB signalling network. Nat. Rev. Mol. Cell. Biol. 2(2): 127-37.

NCBI AND UNIPROT INFORMATION

NCBI GI #	29725609
NCBI GeneID	1956
NCBI Accession #	NP_005219
NCBI GenBank Nucleotide #	NM_005228.4
UniProt Accession #	P00533; O00688; O00732; P06268; Q14225; Q68GS5; Q92795; Q9BZS2; Q9GZX1; Q9H2C9; Q9H3C9; Q9UMD7
Molecular Weight	The recombinant human EGFR/Fc chimera is a homodimeric protein. The reduced monomer consists of 860 amino acids and has a calculated molecular mass of 95 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 110-140 kDa p
NCBI Official Full Name	epidermal growth factor receptor isoform a
NCBI Official Synonym Full Names	epidermal growth factor receptor
NCBI Official Symbol	EGFR
NCBI Official Synonym Symbols	ERBB; HER1; mENA; ERBB1; PIG61; NISBD2
NCBI Protein Information	epidermal growth factor receptor
UniProt Protein Name	Epidermal growth factor receptor
UniProt Gene Name	EGFR

UniProt Synonym Gene Names	ERBB; ERBB1; HER1
UniProt Entry Name	EGFR_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/egfr-recombinant-protein-hek293-cells/257396>