

EGFR active protein

EGFR Protein, Mouse, Recombinant (His Tag)

CATALOG #
AAA258226

HOST
HEK293 Cells

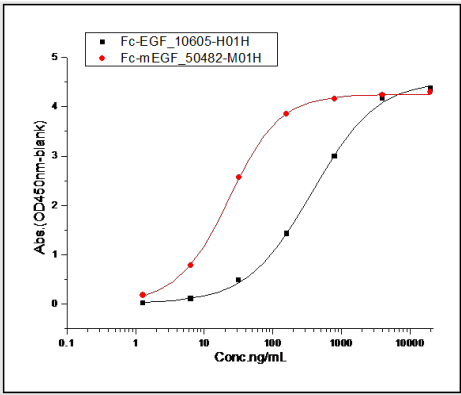
PRODUCT SYNONYMS

EGFR; EGFR Protein; Mouse; Recombinant (His Tag); Mouse EGFR/HER1/ErbB1 Protein (His Tag); 9030024J15Rik Protein; A1552599 Protein; Erbb Protein; Errb1 Protein; Errp Protein; wa-2 Protein; wa2 Protein; Wa5 Protein; epidermal growth factor receptor; EGFR active protein

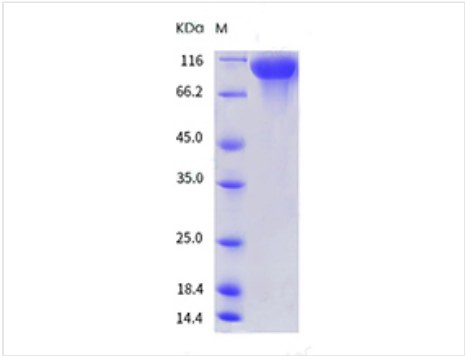
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Ser64 7
Species	Mouse
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Leu 25
Tag	C-His
Protein Construction	A DNA sequence encoding the extracellular domain of mouse EGFR (Q01279)(Met 1-Ser 647) was fused with a polyhistidine tag at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Activity	1. Measured by its binding ability in a functional ELISA. 2. Immobilized mouse EGFR-his at 10ug/mL (100uL/well) can bind human EGF-Fc. The EC50 of human EGF-Fc is 60-90ng/mL. 3. Immobilized mouse EGFR-his at 10ug/mL (100uL/well) can bind mouse EGF-Fc. The EC50 of mouse EGF-Fc is 70-100ng/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. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.

IMAGES



SDS-PAGE



Application Data

Measured by its binding ability in a functional ELISA. 1. Immobilized mouse EGFR-his at 10 ug/mL (100 ul/well) can bind human EGF-Fc, The EC50 of human EGF-Fc is 60-90 ng/mL. 2. Immobilized mouse EGFR-his at 10 ug/mL (100 ul/well) can bind mouse EGF-Fc, The EC50 of mouse EGF-Fc is 70-100 ng/mL.

ADDITIONAL INFORMATION

Related Product Information for EGFR active protein	Background: 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 active 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 #	46560582
NCBI GeneID	13649
NCBI Accession #	NP_997538.1
NCBI GenBank Nucleotide #	NM_207655.2
UniProt Accession #	Q01279
Molecular Weight	134,853 Da
NCBI Official Full Name	epidermal growth factor receptor isoform 1
NCBI Official Synonym Full Names	epidermal growth factor receptor
NCBI Official Symbol	Egfr
NCBI Official Synonym Symbols	Wa5; wa2; Erbb; Errp; wa-2; Errb1; AI552599; 9030024J15Rik
NCBI Protein Information	epidermal growth factor receptor
UniProt Protein Name	Epidermal growth factor receptor

UniProt Gene Name	Egfr
UniProt Entry Name	EGFR_MOUSE

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/hek293-cells-active-protein/egfr/258226>