

## EGFR active protein

EGFR Protein, Mouse, Recombinant (His Tag)

CATALOG #  
**AAA258226**

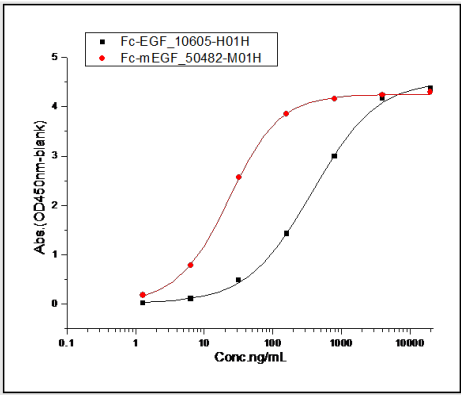
HOST  
**HEK293 Cells**

### PRODUCT SYNONYMS

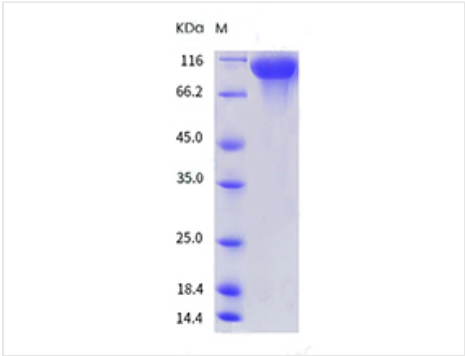
EGFR; EGFR Protein; Mouse; Recombinant (His Tag); Mouse EGFR/HER1/ErbB1 Protein (His Tag); 9030024J15Rik Protein; A1552599 Protein; Erbb Protein; Errb1 Protein; Errp Protein; wa-2 Protein; wa2 Protein; Wa5 Protein; epidermal growth factor receptor; EGFR active protein

### 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                | <ol style="list-style-type: none"> <li>1. Measured by its binding ability in a functional ELISA.</li> <li>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.</li> <li>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.</li> </ol>                                                                                                                                         |
| Preparation and Storage | <p>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.</p> <p>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.</p> |



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.<br>Giaccone, G. (2005) HER1/EGFR-targeted agents: predicting the future for patients with unpredictable outcomes to therapy. Ann. Oncol. 16(4): 538-48.<br>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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/egfr/258226>