# Recombinant Mouse EGFR Protein (His Tag)

**Catalog Number: PKSM040365**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

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|---|---|
| **Species** | Mouse |
| **Source** | HEK293 Cells-derived Mouse EGFR protein Met 1-Ser 647, with an C-terminal His |
| **Calculated MW** | 71.0 kDa |
| **Observed MW** | 100 kDa |
| **Accession** | Q01279 |
| **Bio-activity** | 1. Immobilized mouse EGFR-his at 10 μg/mL (100 μl/well) can bind human EGF-Fc, The $EC_{50}$ of human EGF-Fc is 60-90 ng/mL. 2. Immobilized mouse EGFR-his at 10 μg/mL (100 μl/well) can bind mouse EGF-Fc, The $EC_{50}$ of mouse EGF-Fc is 70-100 ng/mL. |

## Properties

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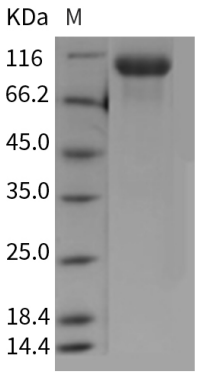
|---|---|
| **Purity** | > 95 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile PBS, pH 7.4<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 95 % as determined by reducing SDS-PAGE.

## 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-α, 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.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