

## Recombinant Human EGFR/ErbB1 Protein (Fc Tag)

**Catalog Number:** PKSH031995

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

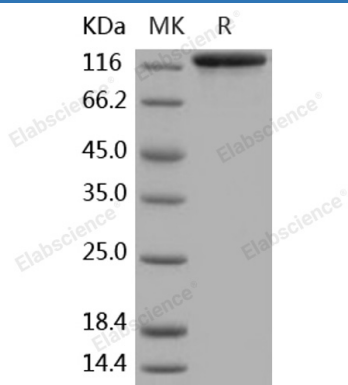
### Description

<b>Species</b>	Human
<b>Source</b>	HEK293 Cells-derived Human EGFR/ErbB1 protein Met 1-Gly 645, with an C-terminal hFc
<b>Calculated MW</b>	95.0 kDa
<b>Observed MW</b>	130-140 kDa
<b>Accession</b>	NP_005219
<b>Bio-activity</b>	Immobilized recombinant human EGF at 10 µg/ml (100 µl/well) can bind human EGFR with a linear range of 0.64-400 ng/ml.

### Properties

<b>Purity</b>	> 97 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method.
<b>Storage</b>	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 °C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
<b>Shipping</b>	This product is provided as lyophilized powder which is shipped with ice packs.
<b>Formulation</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
<b>Reconstitution</b>	Please refer to the printed manual for detailed information.

### Data



> 97 % as determined by reducing SDS-PAGE.

### Background

### For Research Use Only

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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.