



Recombinant Protein Technical Manual

Recombinant Human EGFR/ErbB1 Protein (Fc Tag)(Active)
RPES1169

Product Data:

Product SKU: RPES1169

Size: 50µg

Species: Human

Expression host: HEK293 Cells

Uniprot: NP_005219

Protein Information:

Molecular Mass: 95 kDa

AP Molecular Mass: 13040 kDa

Tag: C-Fc

Bio-activity: Measured by its binding ability in a functional ELISA. 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.

Purity: > 97 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: 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.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

1. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA.

2. Please contact us for any concerns or special

Reconstitution: Please refer to the printed manual for detailed information.

Application: Functional ELISA

Synonyms: ERBB;ERBB1;HER1;mENA;NISBD2;PIG61

Immunogen Information:

Sequence: Met 1-Gly 645

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.