



Recombinant Protein Technical Manual

Recombinant Rat EGFR/ErbB1 Protein (His Tag)(Active)
RPES5227

Product Data:

Product SKU: RPES5227

Size: 50µg

Species: Rat

Expression host: HEK293 Cells

Uniprot: E7CXR8

Protein Information:

Molecular Mass: 70.7 kDa

AP Molecular Mass: 9310 kDa

Tag: C-His

Bio-activity: 1. Measured by its ability to bind recombinant human EGF-Fc in a functional ELISA. 2. Measured by its ability to bind recombinant mouse EGF-Fc in a functional ELISA.

Purity: > 98 % as determined by SDS-PAGE

Endotoxin:

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

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

Application: Functional ELISA

Synonyms: EGFR

Immunogen Information:

Sequence: Met1-Ser646

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.