

Recombinant Rat EGFR/ErbB1 Protein (His Tag)

Catalog No. PKSR030363

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

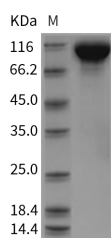
Description

Synonyms	EGFR
Species	Rat
Expression Host	HEK293 Cells
Sequence	Met1-Ser646
Accession	E7CXR8
Calculated Molecular Weight	70.7 kDa
Observed molecular weight	93-110 kDa
Tag	C-His
Bioactivity	Measured by its ability to bind recombinant human EGF-Fc and mouse EGF-Fc in functional ELISA.

Properties

Purity	> 98 % as determined by reducing SDS-PAGE.
Endotoxin	Please contact us for more information.
Storage	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.
Shipping	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation	Lyophilized from sterile PBS, pH 7.4 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the printed manual.
Reconstitution	Please refer to the printed manual for detailed information.

Data



> 98 % as determined by reducing SDS-PAGE.

Background

As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane

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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.