

Recombinant Human EGFR/ErbB1 Protein (Fc Tag)

Catalog No. PKSH031995

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

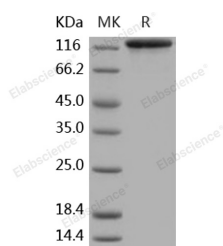
Description

Synonyms	ERBB;ERBB1;HER1;mENA;NISBD2;PIG61
Species	Human
Expression Host	HEK293 Cells
Sequence	Met 1-Gly 645
Accession	NP_005219
Calculated Molecular Weight	95.0 kDa
Observed molecular weight	130-140 kDa
Tag	C-hFc
Bioactivity	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

Purity	> 97 % 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°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



> 97 % 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.