

Recombinant Human HER1/ERBB1/EGFR Protein

Catalog No.: RP00210

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Human	1956	P00533

Tags

C-His

Synonyms

EGFR; ERBB; ERBB1; HER1; NISBD2;
 PIG61; mENA; epidermal growth factor
 receptor; ERBB; ERBB1; HER1; NISBD2; PIG6
 1; mENA

Product Information

Source	Purification
HEK293 cells	≥ 90 % as determined by SDS- PAGE.

Calculated MW	Observed MW
72.53 kDa	110-115 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL
 method.

Formulation

Lyophilized from a 0.22 μm filtered
 solution of PBS, pH 7.4. Contact us for
 customized product form or formulation.

Reconstitution

Centrifuge the vial before opening.
 Reconstitute to a concentration of
 0.1-0.5 mg/mL in sterile distilled water.
 Avoid vortex or vigorously pipetting the
 protein. For long term storage, it is
 recommended to add a carrier protein or
 stabilizer (e.g. 0.1% BSA, 5% HSA, 10%
 FBS or 5% Trehalose), and aliquot the
 reconstituted protein solution to
 minimize free-thaw cycles.

Background

The EGFR (epidermal growth factor receptor) subfamily of receptor tyrosine kinases comprises four members: EGFR (also known as HER-1, ErbB1, or ErbB), ErbB2 (Neu, HER-2), ErbB3 (HER-3), and ErbB4 (HER-4). EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF-α, betacellulin, etc. The human EGFR cDNA encodes a 1210 amino acid (aa) precursor with a 24 aa signal peptide, a 621 aa extracellular domain (ECD), a 23 aa transmembrane segment, and a 542 aa cytoplasmic domain. EGFR signaling has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently, which is overexpressed in a wide variety of tumors and is the target of several anti-cancer drugs.

Basic Information

Description

Recombinant Human HER1/ERBB1/EGFR Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Met1-Ser645) of human EGFR (Accession #NP_005219.2.) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human EGFR at 5 μg/mL (100 μL/well) can bind Human EGF with a linear range of 7-25 ng/mL.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
 After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
 Avoid repeated freeze/thaw cycles.

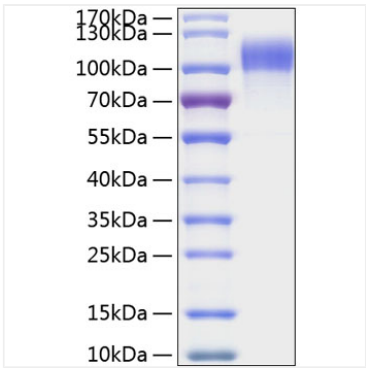
Contact

☎ | 400-999-6126

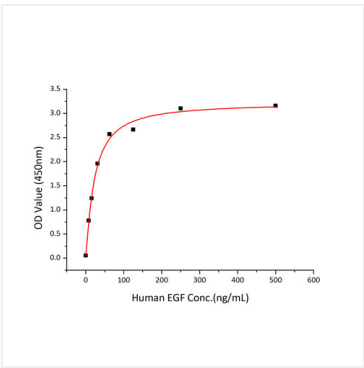
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Validation Data



Recombinant Human HER1/ERBB1/EGFR Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Immobilized Human EGFR at 5 µg/mL (100 µL/well) can bind Human EGF with a linear range of 7-25ng/mL.