Recombinant Human HER1/ERBB1/EGFR Protein

Catalog No.: RP00210

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Sequence Information

Species
Human

Gene ID
1956

Swiss Prot
P00533

Tags
C-His

Synonyms
EGFR, ERBB, ERBB1, HER1, NISBD2, PIG61, mENA, epidermal growth factor receptor,ERBB, ERBB1,HER1,NISBD2,PIG61,mENA

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
72.53 kDa

Observed MW
100-130 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 stablizer (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.

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.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

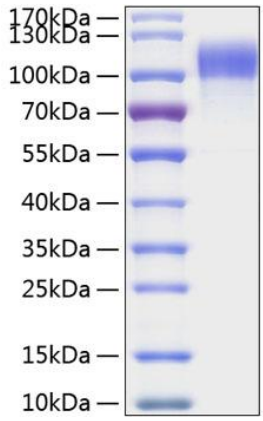
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

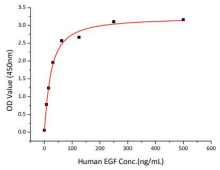
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Validation Data



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.