

Biotinylated Recombinant Human HER1/ERBB1/EGFR Protein

Catalog No.: RP00498B **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	1956	P00533-1

Tags

C-His&Avi

Synonyms

ErbB; EC 2.7.10; EC 2.7.10.1; EGFR; mENA; LEGFR; ERBB; ERBB1; HER1; PIG61; NISBD2

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE > 95% by HPLC

Calculated MW	Observed MW
71.5 kDa	90-120 kDa

Endotoxin

< 1 EU/μg of the protein by LAL method

Formulation

Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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.

Contact

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Background

The epidermal growth factor receptor is a transmembrane protein that is a receptor for members of the epidermal growth factor family of extracellular protein ligands. The epidermal growth factor receptor is a member of the ErbB family of receptors, a subfamily of four closely related receptor tyrosine kinases: EGFR, HER2/neu, Her 3 and Her 4. Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses.

Basic Information

Description

Biotinylated Recombinant Human ERBB1/HER1/EGFR Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu25-Ser645) of Human ERBB1/HER1/EGFR (Accession #P00533-1) fused with a C-His&Avi tag at the C-terminus.

Bio-Activity

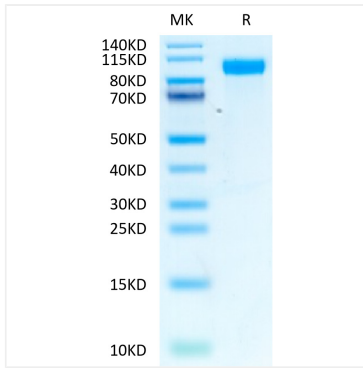
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

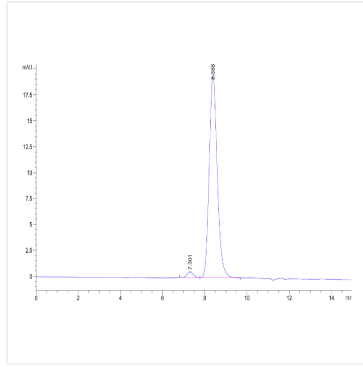
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

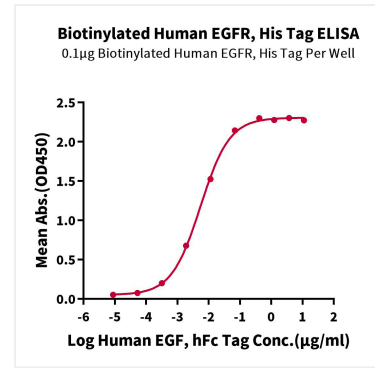
Validation Data



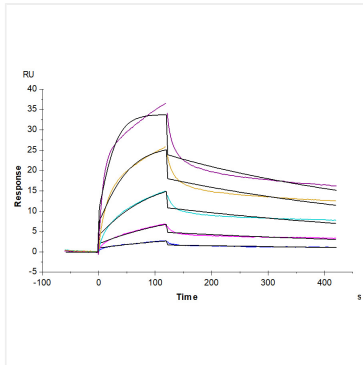
Biotinylated Human EGFR on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



The purity of Biotinylated Human EGFR is greater than 95% as determined by SEC-HPLC.



Immobilized Biotinylated Human EGFR, His Tag at 1 µg/mL (100 µL/well) on the streptavidin precoated plate (5 µg/mL). Dose response curve for Human EGF, hFc Tag with the EC_{50} of 5.5ng/mL determined by ELISA (QC Test).



Biotinylated Human EGFR, His Tag captured on CM5 Chip via Anti-his antibody can bind Human EGF. No Tag with an affinity constant of 0.62 nM as determined in SPR assay (Biacore T200).