

# Biotinylated Recombinant Human HER1/ERBB1/EGFR (25-378) Protein

Catalog No.: RP00500B **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Human	1956	NP_001333870.1

### 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

HEK293 cells

### Purification

≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

### Calculated MW

41.6 kDa

### Observed MW

60-78 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 (EGFR) is overexpressed in a variety of human epithelial tumors, often as a consequence of gene amplification. Tumors with EGFR gene amplification frequently contain EGFR gene rearrangements, with the most common extracellular domain mutation being EGFRvIII. This mutation leads to a deletion of exons 2-7 of the EGFR gene and renders the mutant receptor incapable of binding any known ligand.

## Basic Information

### Description

Biotinylated Recombinant Human ERBB1/HER1/EGFR (25-378) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu25-Ser378) of Human ERBB1/HER1/EGFR (25-378) (Accession #NP\_001333870.1) fused with a C-His&Avi tag at the C-terminus.

### Bio-Activity

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### 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.

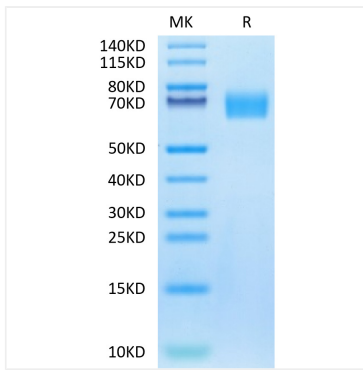
Avoid repeated freeze/thaw cycles.

### Operational Notes

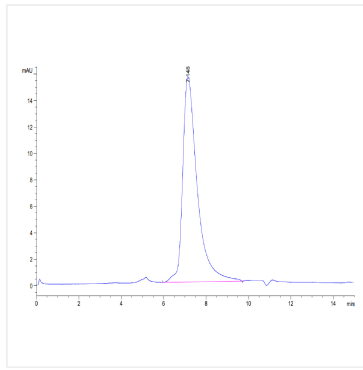
For your safety and health, please wear a lab coat and disposable gloves for handling.



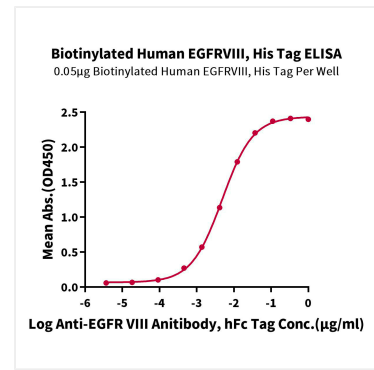
## Validation Data



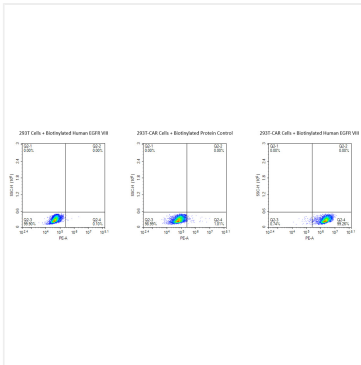
Biotinylated Recombinant Human HER1/ERBB1/EGFR (25-378) Protein was determined by Tris-Bis PAGE under reducing conditions.



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



Immobilized Biotinylated Human EGFRVIII, His Tag at 0.5 µg/mL (100 µL/Well) on streptavidin (5 µg/mL) precoated plate. Dose response curve for Anti-EGFR VIII Antibody, hFc Tag with the EC<sub>50</sub> of 4.8ng/mL determined by ELISA (QC Test).



Use Biotinylated Human EGFRVIII, His Tag protein to detect the expression rate of Anti-EGFRVIII-CAR positive cell. 293T cells and anti-EGFRVIII CAR-293T cells were incubated with Biotinylated human EGFR VIII-His Tag. Non-transfected 293T cells and Biotinylated protein control were used as negative control. SA-PE was used to evaluate the binding activity of Biotinylated Human EGFR VIII.