

RP00498

Leader in Biomolecular Solutions for Life Science



Recombinant Human EGFR/HER1 Protein

Catalog No.: RP00498

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	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

<I>E. coli</I>

Purification

> 95% by SDS-
PAGE ; > 95% by
HPLC

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.

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

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

Bio-Activity

Storage

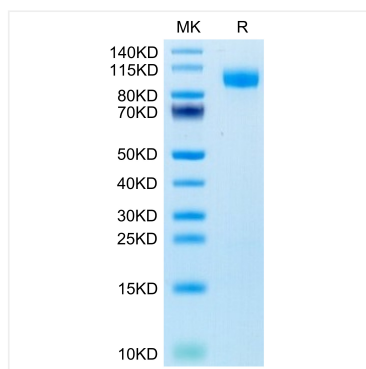
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Contact

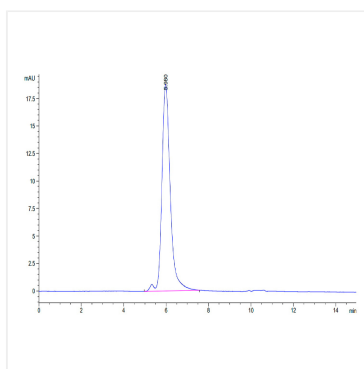


www.abclonal.com

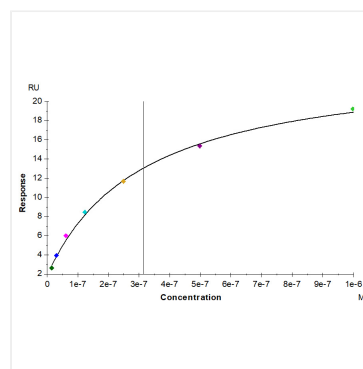
Validation Data



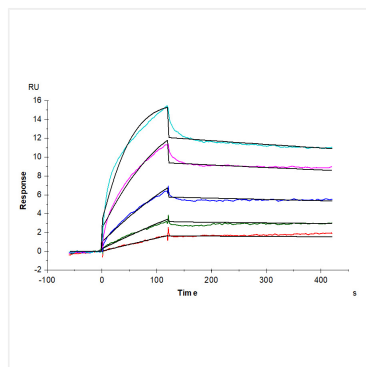
Human EGFR on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.



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



Human EGFR, His Tag captured on CM5 Chip via anti-his antibody can bind Human TGF-alpha, hFc Tag with an affinity constant of 0.31 μM as determined in SPR assay (Biacore T200).



Human EGFR, His Tag captured on CM5 Chip via Anti-His Antibody can bind Human EGF, No Tag with an affinity constant of 0.18 nM as determined in SPR assay (Biacore T200) (QC Test).