

RP00499

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Recombinant Human EGFR/HER1 Protein

Catalog No.: RP00499

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	1956	P00533

Tags

C-hFc

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) fused with a C-hFc 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.

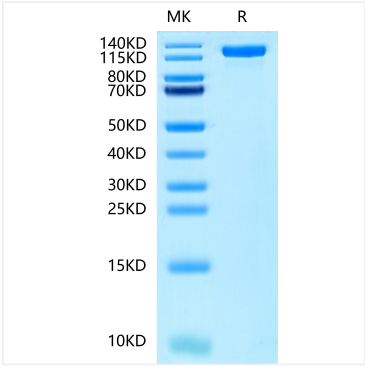
Contact



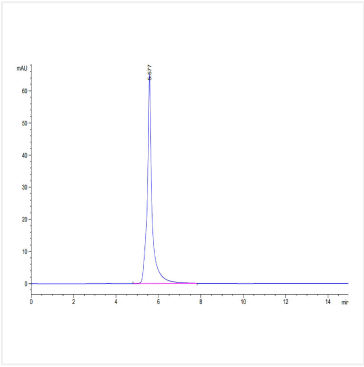
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* For your safety and health, please wear a lab coat and disposable gloves when handling.

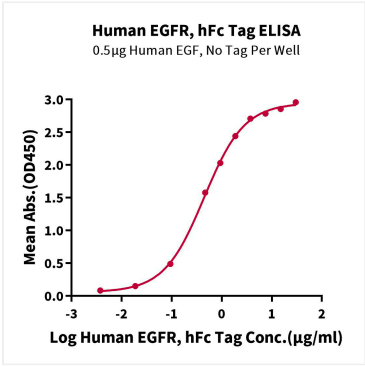
Validation Data



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.



Immobilized Human EGF, No Tag at 5 μg/mL (100 μL/well) on the plate. Dose response curve for Human EGFR, hFc Tag with the EC₅₀ of 0.44 μg/mL determined by ELISA.