

Synonym

EGFR,ERBB,ERBB1,HER1,PIG61,mENA

Source

Rhesus macaque EGF R, Fc Tag(EGR-C5252) is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Ser 645 (Accession # [P55245](#)).
Predicted N-terminus: Leu 25

Molecular Characterization

EGF R(Leu 25 - Ser 645) P55245	Fc(Pro 100 - Lys 330) P01857
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This protein carries a human IgG1 Fc tag at the C-terminus.
The protein has a calculated MW of 95.3 kDa. The protein migrates as 116-120 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.
For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

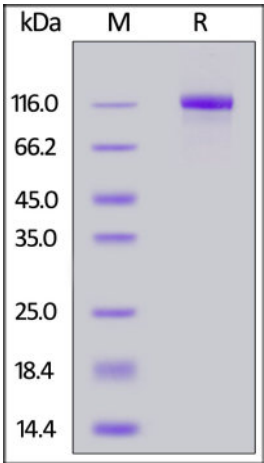
Storage

For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

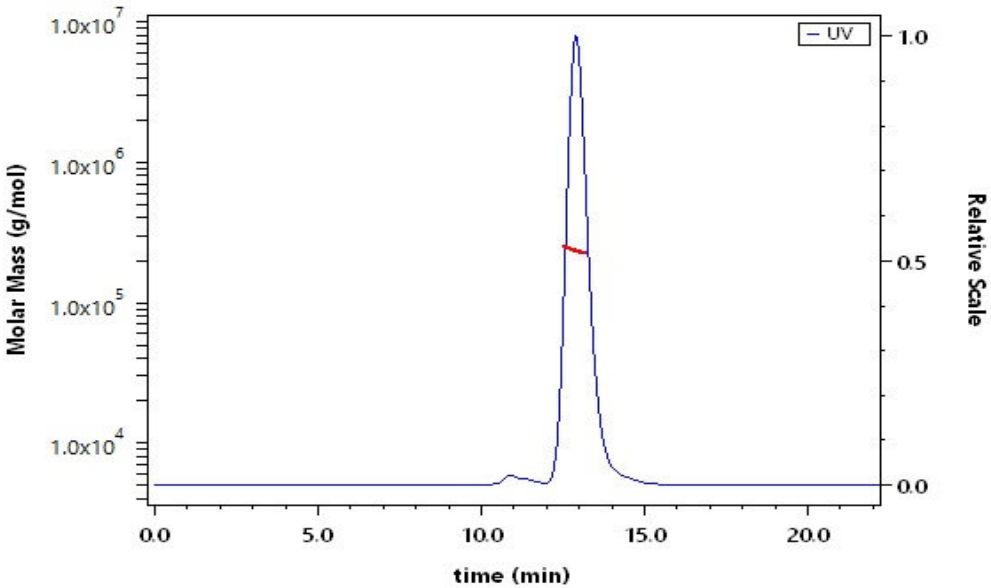
- This product is stable after storage at:
- 20°C to -70°C for 12 months in lyophilized state;
 - 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Rhesus macaque EGF R, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

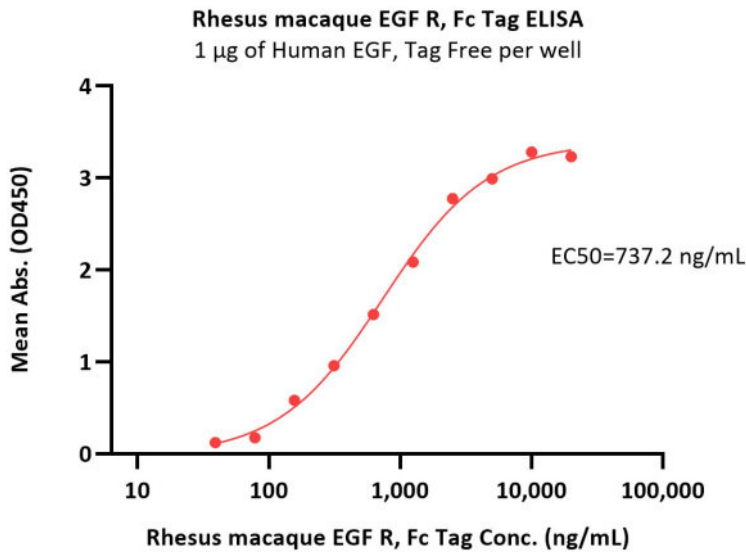


The purity of Rhesus macaque EGF R, Fc Tag (Cat. No. EGR-C5252) is more than 85% and the molecular weight of this protein is around 225-245 kDa verified by SEC-MALS.

[Report](#)

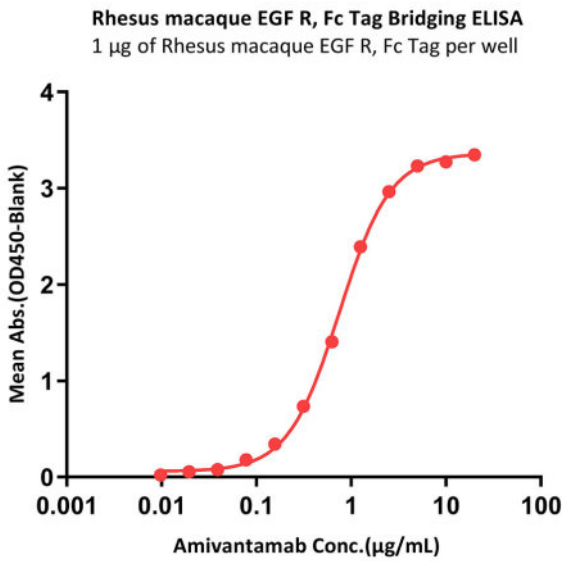
Bioactivity-ELISA





Immobilized Human EGF, Tag Free at 10 µg/mL (100 µL/well) can bind Rhesus macaque EGF R, Fc Tag (Cat. No. EGR-C5252) with a linear range of 39-1250 ng/mL (QC tested).

Bridging Elisa



Validated with Bispecific Antibody.

Immobilized Rhesus macaque EGF R, Fc Tag (Cat. No. EGR-C5252) at 10 µg/mL, add increasing concentrations of Amivantamab and then add Cynomolgus HGF R, His Tag (Cat. No. MET-C52H9) at 5 µg/mL. Detection was performed using HRP conjugated Anti-His Antibody (AY63), mAb (Cat. No. HIS-PLM535) with sensitivity of 0.02 µg/mL (Routinely tested).

Background

The epidermal growth factor receptor (EGFR; ErbB-1; HER1 in humans) is the cell-surface receptor for members of the epidermal growth factor family (EGF-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 (ErbB-1), HER2/c-neu (ErbB-2), Her 3 (ErbB-3) and Her 4 (ErbB-4). Mutations affecting EGFR expression or activity could result in cancer.

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