



## 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) | Fc(Pro 100 - Lys 330) |
| P55245                  | P01857                |

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  $\mu$ g by the LAL method / rFC method.

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m 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

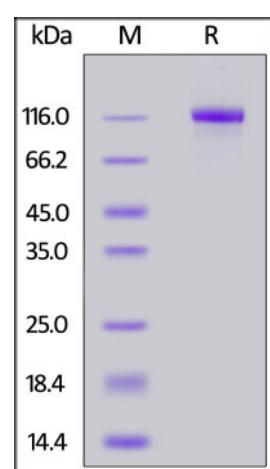
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

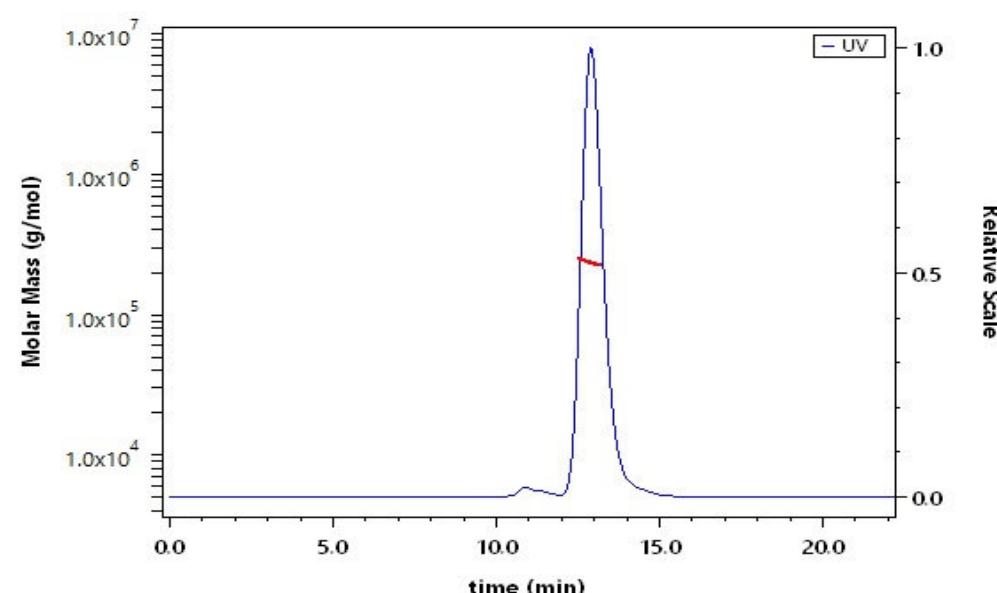
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## 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.

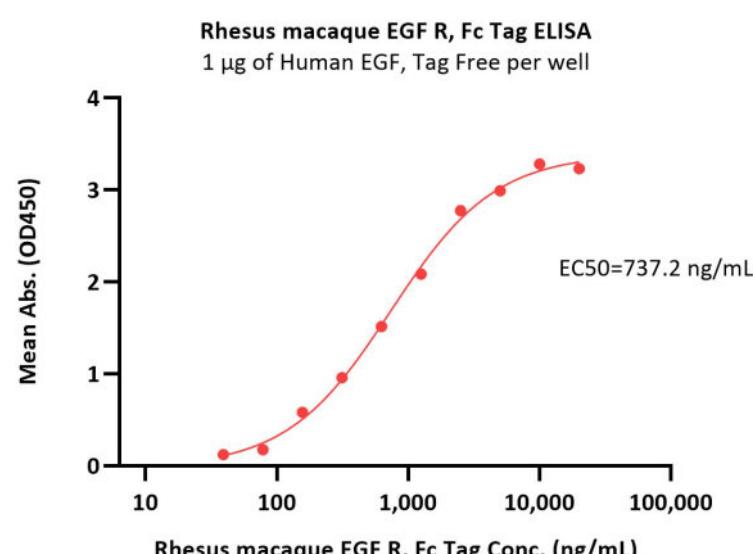
[Report](#)

## Bioactivity-ELISA

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and more!

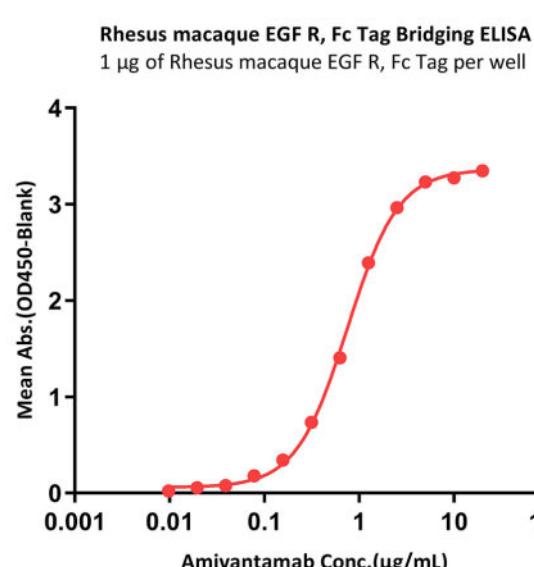


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Immobilized Human EGF, Tag Free at 10  $\mu$ g/mL (100  $\mu$ L/well) can bind Rhesus macaque EGF R, Fc Tag (Cat. No. EGR-C5252) with a linear range of 39-1250 ng/mL (QC tested).

### Bridging Elisa



### Validated with Bispecific Antibody.

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