



Synonym

EGFR,ERBB,ERBB1,HER1,PIG61,mENA

Source

Mouse EGF R Protein, Fc Tag(EGR-M5257) is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Ser 647 (Accession # [Q01279-1](#)).

Predicted N-terminus: Leu 25

Molecular Characterization

EGF R(Leu 25 - Ser 647)
Q01279-1

Fc(Pro 100 - Lys 330)
P01857

This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 95.7 kDa. The protein migrates as 110-130 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

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

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM 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

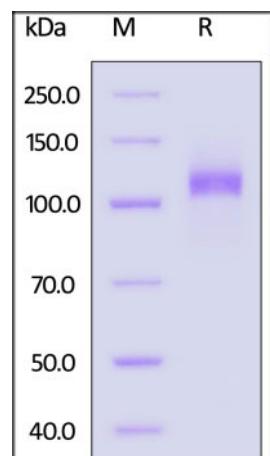
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

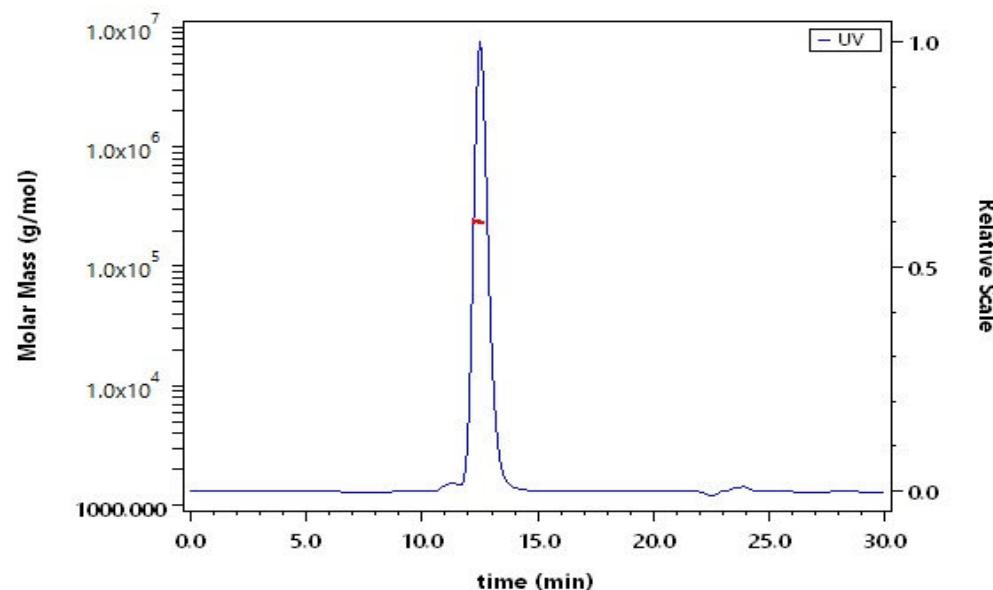
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Mouse EGF R Protein, 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 Mouse EGF R Protein, Fc Tag (Cat. No. EGR-M5257) is more than 90% and the molecular weight of this protein is around 215-245 kDa verified by SEC-MALS.

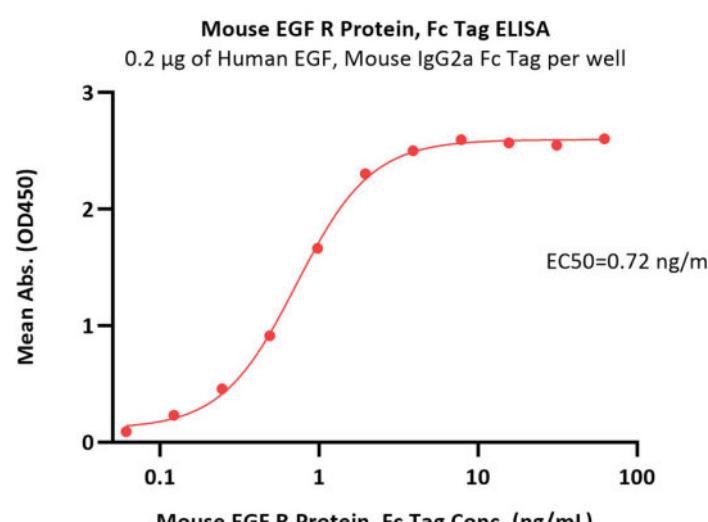
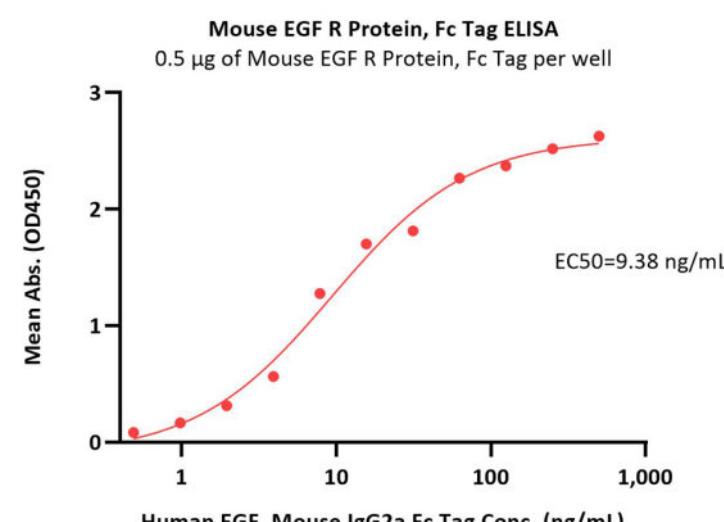
[Report](#)

Bioactivity-ELISA

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Immobilized Mouse EGF R Protein, Fc Tag (Cat. No. EGR-M5257) at 5 µg/mL (100 µL/well) can bind Human EGF, Mouse IgG2a Fc Tag (Cat. No. EGF-H525b) with a linear range of 0.5-63 ng/mL (QC tested).

Immobilized Human EGF, Mouse IgG2a Fc Tag (Cat. No. EGF-H525b) at 2 µg/mL (100 µL/well) can bind Mouse EGF R Protein, Fc Tag (Cat. No. EGR-M5257) with a linear range of 0.1-2 ng/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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