

Synonym

EGFR,ERBB,ERBB1,HER1,PIG61,mENA

Source

Mouse EGF R, His Tag(EGR-M5224) 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	Poly-his
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This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 71.2 kDa. The protein migrates as 86-110 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 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

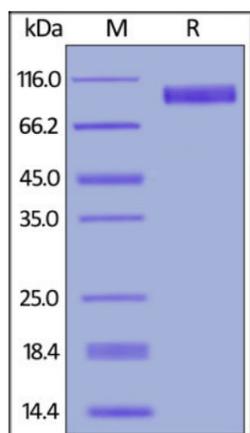
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

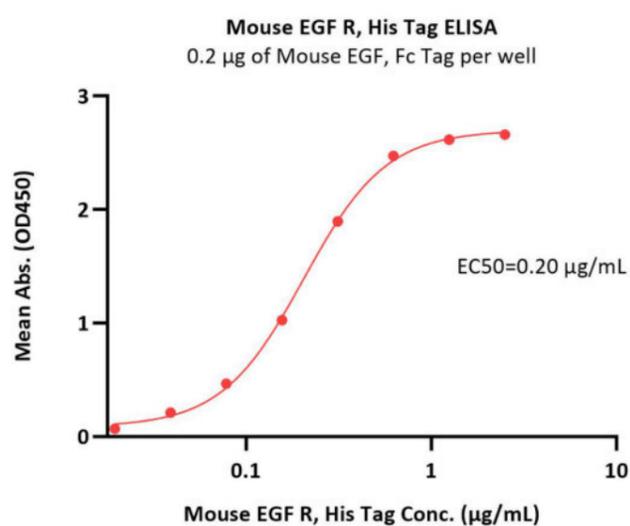
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



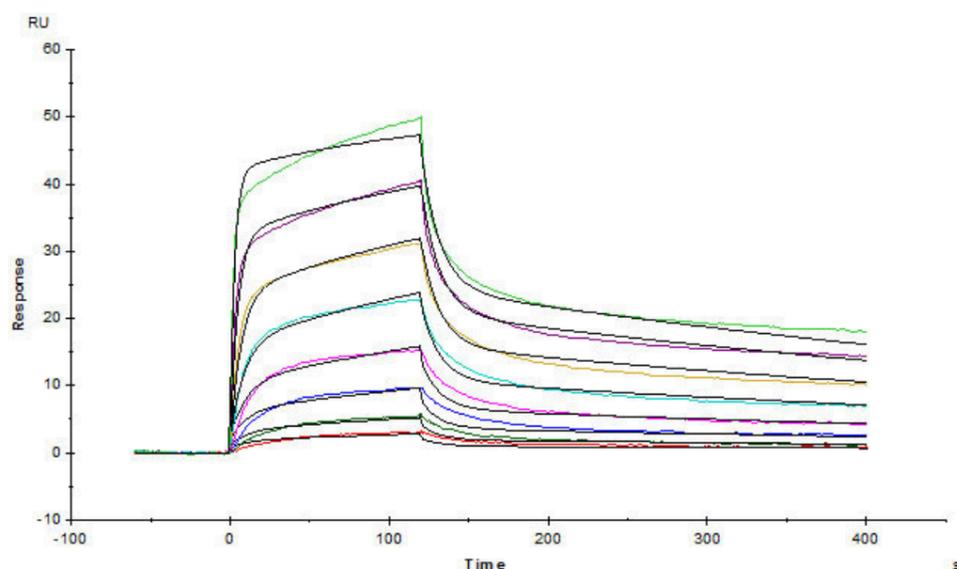
Mouse EGF R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Mouse EGF, Fc Tag (Cat. No. EGF-M5265) at 2 µg/mL (100 µL/well) can bind Mouse EGF R, His Tag (Cat. No. EGR-M5224) with a linear range of 0.02-0.313 µg/mL (QC tested).

Bioactivity-SPR



Captured Mouse EGF R, His Tag (Cat. No. EGR-M5224) on CM5 Chip via anti-His antibody can bind Mouse EGF, Fc Tag (Cat. No. EGF-M5265) with an affinity constant of 5.44 nM as determined in SPR assay (Biacore T200) (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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.