Rabbit EGF R Protein, His Tag

Catalog # EGR-R52H7

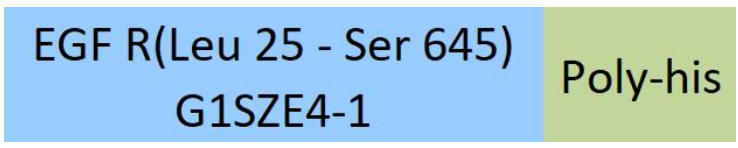
Synonym

EGFR,ERBB,ERBB1,HER1,PIG61,mENA

Source

Rabbit EGF R, His Tag(EGR-R52H7) is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Ser 645 (Accession # G1SZE4-1).
Predicted N-terminus: Leu 25

Molecular Characterization



This protein carries a polyhistidine tag at the C-terminus

The protein has a calculated MW of 70.2 kDa. The protein migrates as 75-85 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

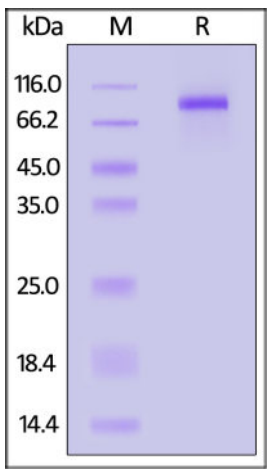
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

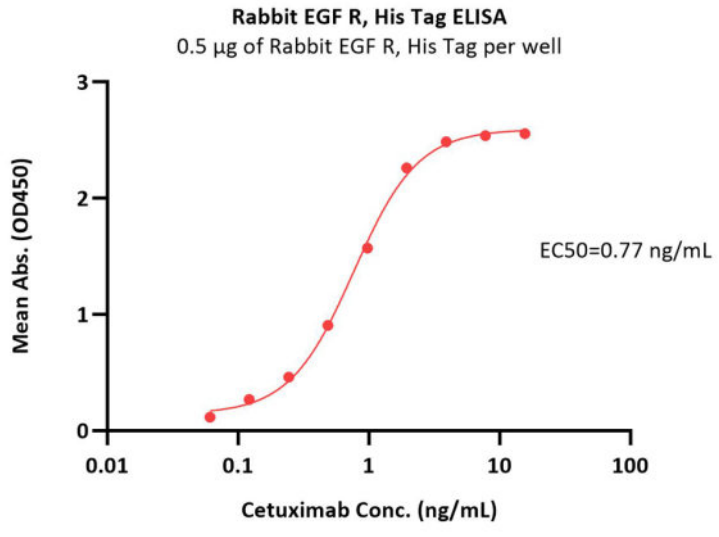
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

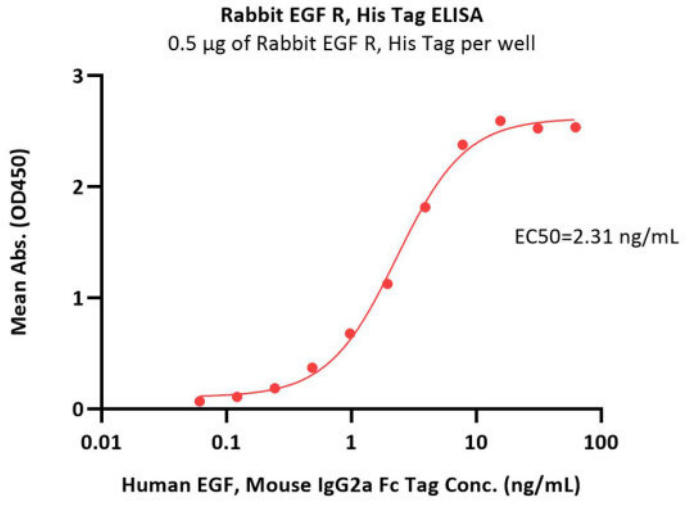


Rabbit EGF R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

Bioactivity-ELISA



Immobilized Rabbit EGF R, His Tag (Cat. No. EGR-R52H7) at 5 μg/mL (100 μL/well) can bind Cetuximab with a linear range of 0.1-2 ng/mL (QC tested).



Immobilized Rabbit EGF R, His Tag (Cat. No. EGR-R52H7) at 5 μg/mL (100 μL/well) can bind Human EGF, Mouse IgG2a Fc Tag (Cat. No. EGF-H525b) with a linear range of 0.1-8 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.

Clinical and Translational Updates

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