Human EGF R Protein

Catalog # EGR-H5222
For Research Use Only

Description

Source Human EGF R, His Tag (EGR-H5222) is expressed from human 293 cells (HEK293). It contains AA Leu 25 - Ser 645 (Accession # P00533-1). Predicted N-terminus: Leu 25

Predicted N-terminus
Leu 25

Protein Structure

<table>
<thead>
<tr>
<th>EGF R(Leu 25 - Ser 645)</th>
<th>Poly-his</th>
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<td>P00533-1</td>
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Molecular Characterization
This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 70.5kDa. The protein migrates as 95-120 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.

Bioactivity
Measured by its binding ability in a functional ELISA. Immobilized Cetuximab at 2 μg/mL (100 μL/well) can bind Human EGF R, His Tag (Cat. No. EGR-H5222) with a linear range of 0.8-6 ng/mL (QC tested).

Formulation and Storage

Formulation
Lyophilized from 0.22 μm filtered solution in PBS, pH7.4. Normally trehalose is added as protectant before lyophilization.

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.

No activity loss was observed after storage at:
- 4-8°C for 12 months in lyophilized state;
- -70°C for 12 months under sterile conditions after reconstitution.

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.

References

Please contact us at TechSupport@acrobiologics.com, if you have any questions about this product.
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Assay Data

SDS-PAGE Data

Human 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 Data

Immobilized Cetuximab at 2 μg/mL (100 μL/well) can bind Human EGF R, His Tag (Cat. No. EGR-H5222) with a linear range of 0.8-6 ng/mL (QC tested).

Immobilized Erbitux on CMS Chip via anti-human Fc IgG, can bind Human EGF R, His Tag, low endotoxin (Cat.No. EGR-HS22a) with an affinity constant of 0.492nM as determined in SPR assay (Biacore T200) ( Routinely tested).