

Biotinylated Human EGFRVIII Protein



Cat. No. EG8-HM154B

| Description      |   |
|------------------|---|
| Source           | Recombinant Biotinylated Human EGFRVIII Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus.<br>It contains Leu25-Ser378. |
| Accession        | NP_001333870.1  |
| Molecular Weight | The protein has a predicted MW of 41.6 kDa. Due to glycosylation, the protein migrates to 60-78 kDa based on Bis-Tris PAGE result.                |
| Endotoxin        | Less than 1 EU per µg by the LAL method.  |
| Purity           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC   |

| Formulation and Storage |   |
|-------------------------|---|
| Formulation             | Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| Reconstitution          | Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.   |
| Storage                 | -20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

**Background**

The epidermal growth factor receptor (EGFR) is overexpressed in a variety of human epithelial tumors, often as a consequence of gene amplification. Tumors with EGFR gene amplification frequently contain EGFR gene rearrangements, with the most common extracellular domain mutation being EGFRVIII. This mutation leads to a deletion of exons 2-7 of the EGFR gene and renders the mutant receptor incapable of binding any known ligand.

Assay Data

Bis-Tris PAGE



Biotinylated Human EGFRVIII on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

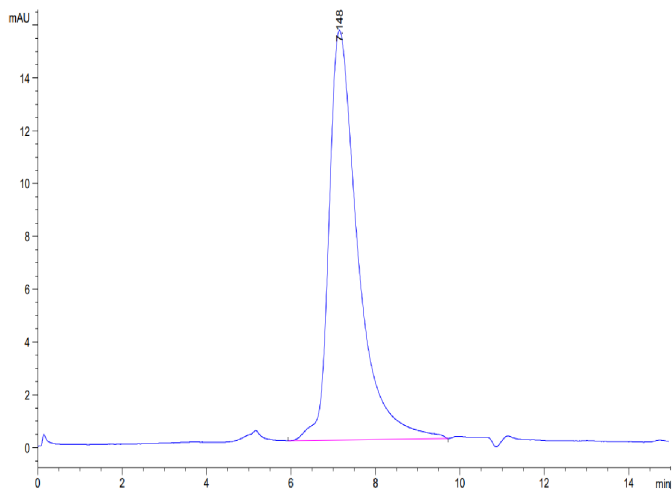
SEC-HPLC

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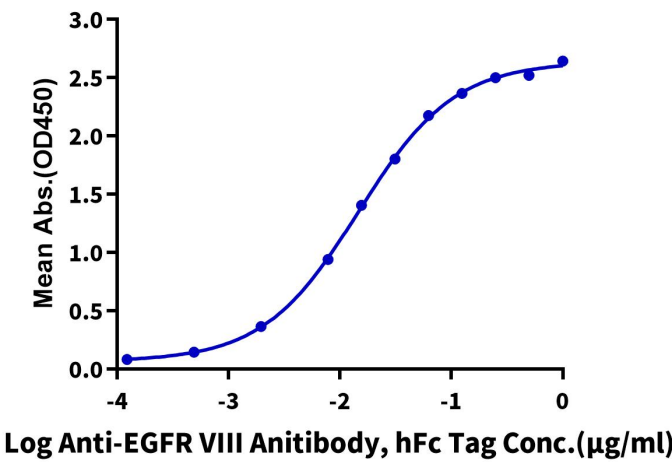
Assay Data



The purity of Biotinylated Human EGFRVIII is greater than 95% as determined by SEC-HPLC.

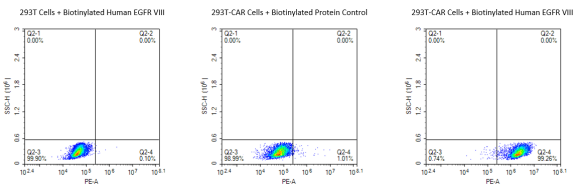
ELISA Data

**Biotinylated Human EGFRVIII, His Tag ELISA**  
0.05µg Biotinylated Human EGFRVIII, His Tag Per Well



Immobilized Biotinylated Human EGFRVIII, His Tag at 0.5µg/ml (100µl/Well) on streptavidin (5µg/ml) precoated plate. Dose response curve for Anti-EGFR VIII Anitibody, hFc Tag with the EC50 of 14.7ng/ml determined by ELISA (QC Test).

FACS Data



Use Biotinylated Human EGFRVIII, His Tag protein to detect the expression rate of Anti-EGFRVIII-CAR positive cell. 293T cells and anti-EGFRVIII CAR-293T cells were incubated with Biotinylated human EGFR VIII-His Tag. Non-transfected 293T cells and Biotinylated protein control were used as negative control. SA-PE was used to evaluate the binding activity of Biotinylated Human EGFR VIII.