

Human EGFRVIII Protein, Ultra Low Endotoxin



Cat. No. EG8-HM254-UL

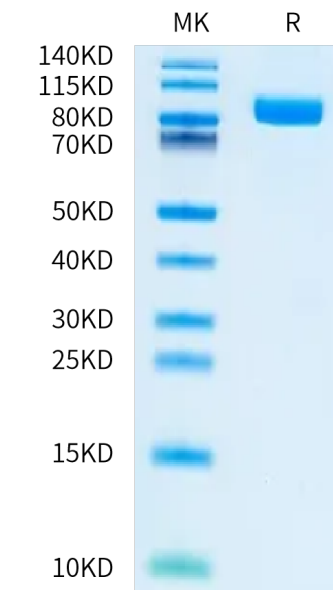
| Description      |  |
|------------------|--|
| Source           | Recombinant Human EGFRVIII Protein is expressed from HEK293 with hFc tag at the C-terminus.<br>It contains Leu25-Ser378.             |
| Accession        | NP_001333870.1   |
| Molecular Weight | The protein has a predicted MW of 64.58 kDa. Due to glycosylation, the protein migrates to 80-100 kDa based on Tris-Bis PAGE result. |
| Endotoxin        | Less than 0.01 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 0.22 µm 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

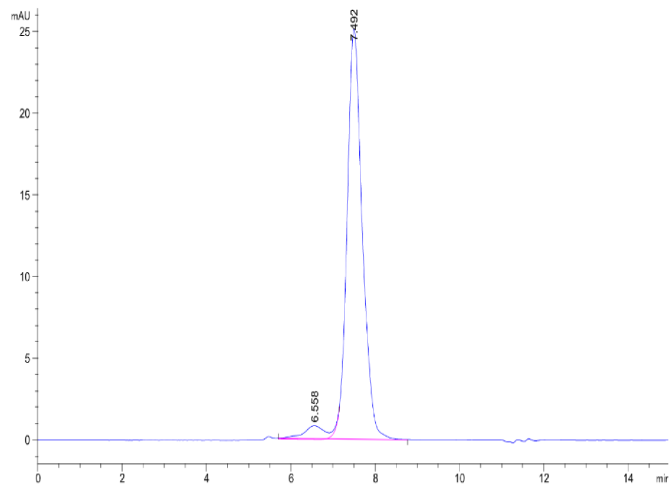
Bis-Tris PAGE



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

SEC-HPLC

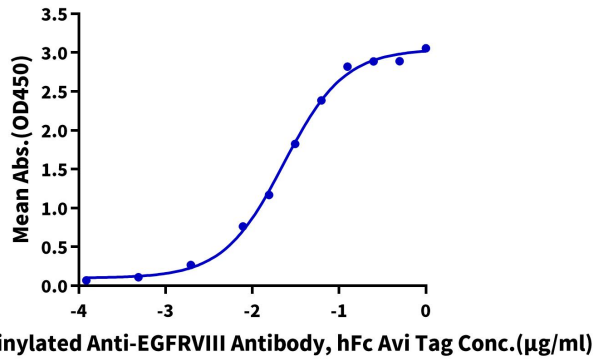
Assay Data



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

ELISA Data

**Human EGFR VIII, hFc Tag ELISA**  
0.05µg Human EGFR VIII, hFc Tag Per Well



Immobilized Human EGFR VIII, hFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Anti-EGFRVIII Antibody, hFc Avi Tag with the EC50 of 23.0ng/ml determined by ELISA.