# Human EGFRVIII Protein

**Cat. No.** EG8-HM154

## Description

| | |
|---|---|
| **Source** | Recombinant Human EGFRVIII Protein is expressed from HEK293 with His tag and Avi tag at the N-Terminus. |
| | 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 68-80 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |
| | > 95% as determined by HPLC |

## Formulation and Storage

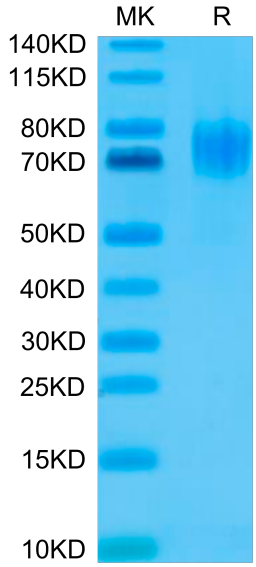
| | |
|---|---|
| **Formulation** | Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| **Reconstitution** | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water. |
| **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

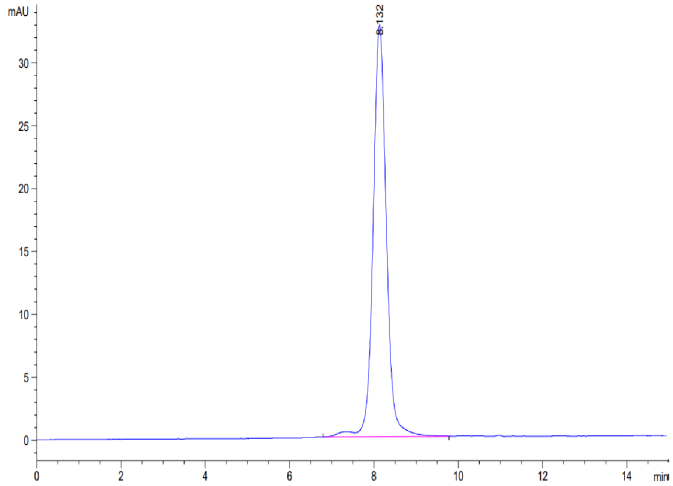
**Bis-Tris PAGE**




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

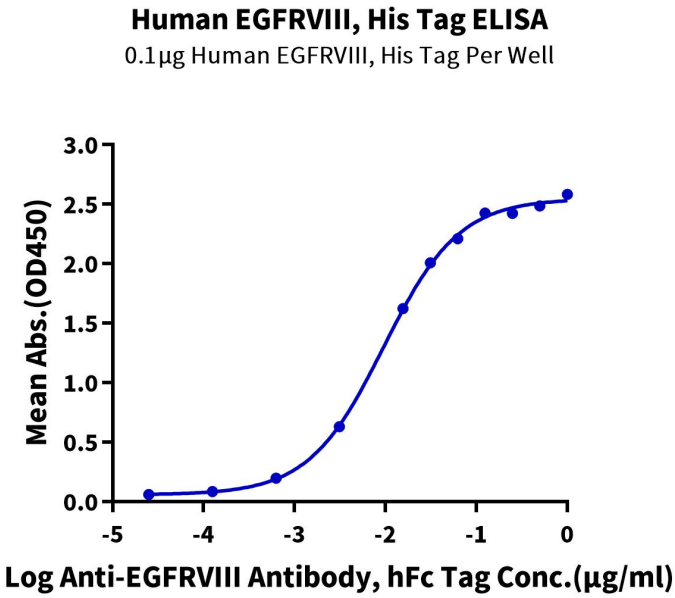
**SEC-HPLC**

## Assay Data




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

## ELISA Data




Immobilized Human EGFRVIII, His Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Anti-EGFRVIII Antibody, hFc Tag with the EC50 of 9.6ng/ml determined by ELISA.