

# Human EGFR/HER1 Protein

Cat. No. EGF-HM201

## Description

<b>Source</b>	Recombinant Human EGFR/HER1 Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Leu25-Ser645.
<b>Accession</b>	P00533
<b>Molecular Weight</b>	The protein has a predicted MW of 95.2 kDa. Due to glycosylation, the protein migrates to 110-140 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	>95% as determined by Bis-Tris PAGE; >95% as determined by HPLC

## Formulation and Storage

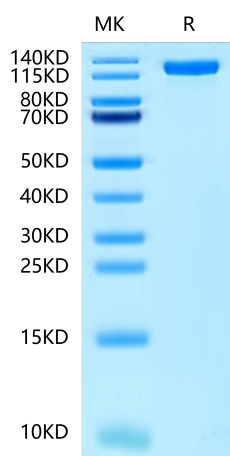
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-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 is a transmembrane protein that is a receptor for members of the epidermal growth factor 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, HER2/neu, Her 3 and Her 4. Receptor tyrosine kinase binding ligands of the EGF family and activating several signaling cascades to convert extracellular cues into appropriate cellular responses.

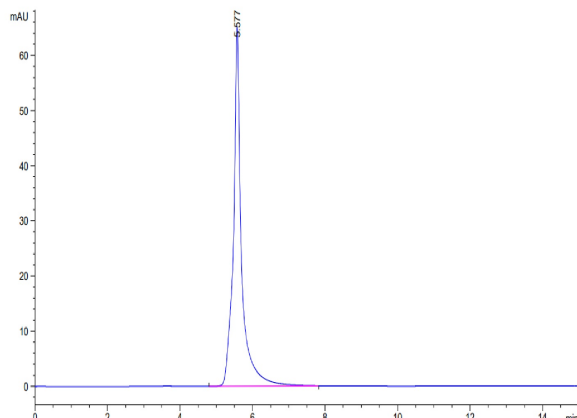
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



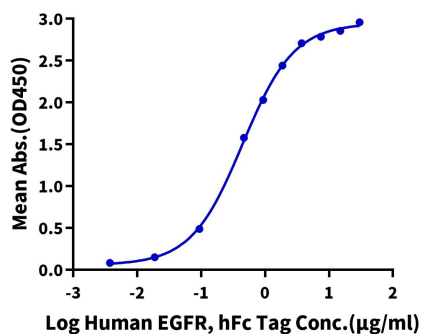
The purity of Human EGFR is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

Human EGFR, hFc Tag ELISA

0.5µg Human EGF, No Tag Per Well



Immobilized Human EGF, No Tag at 5 µg/ml (100 µl/well) on the plate. Dose response curve for Human EGFR, hFc Tag with the EC50 of 0.44 µg/ml determined by ELISA (QC Test).