

# Mouse EGFR/HER1 Protein

Cat. No. EGF-MM101

## Description

<b>Source</b>	Recombinant Mouse EGFR/HER1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu25-Ser647.
<b>Accession</b>	Q01279
<b>Molecular Weight</b>	The protein has a predicted MW of 70.40 kDa. Due to glycosylation, the protein migrates to 90-110 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

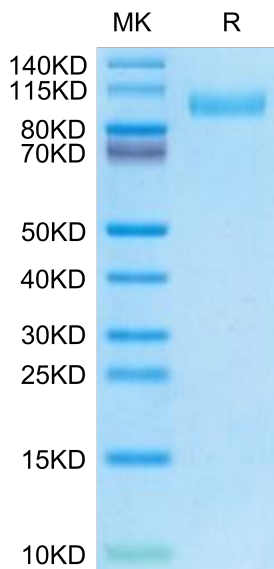
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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. 2-8°C for 2-7 days 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

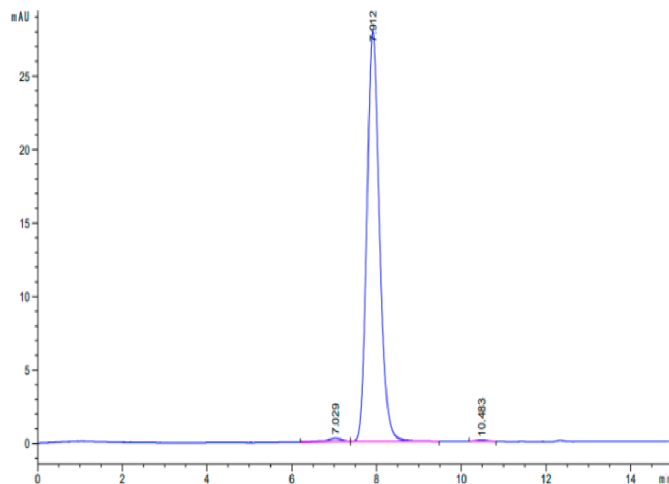
### Bis-Tris PAGE



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

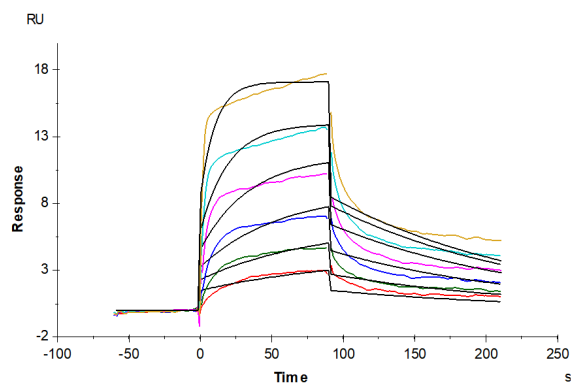
### SEC-HPLC

Assay Data



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

SPR Data



Mouse EGFR, His Tag captured on CM5 Chip via anti-his antibody can bind Mouse EGF, hFc Tag with an affinity constant of 3.98 nM as determined in SPR assay (Biacore T200).