

Mouse EGFR/HER1 Protein

Cat. No. EGF-MM101

Description

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

Formulation and Storage

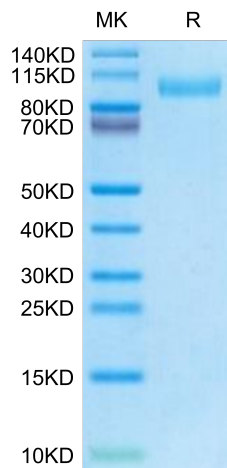
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 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

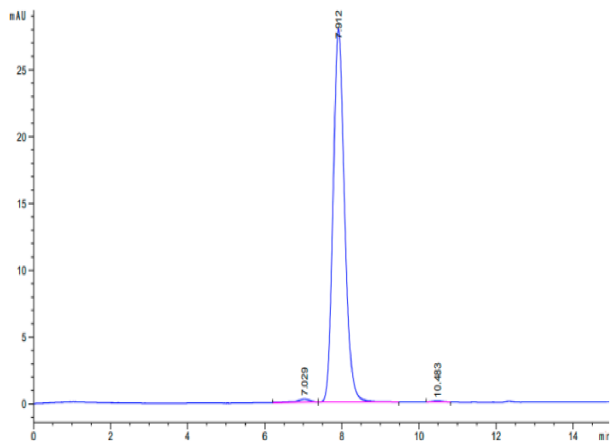
Tris-Bis PAGE



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

SEC-HPLC

Assay Data



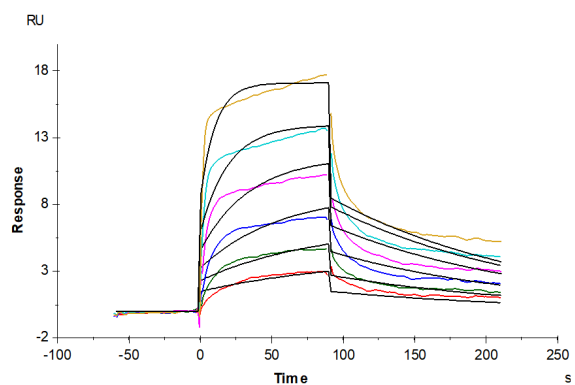
The purity of Mouse EGFR is greater than 95% as determined by SEC-HPLC.

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Assay Data

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).