

Recombinant Mouse EGFR/HER1 Protein

Catalog No.: RP03240 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	13649	Q01279

Tags

C-6His

Synonyms

Egfr;Epidermal growth factor receptor

Product Information

Source	Purification
HEK293 cells	> 95% by Tris-Bis PAGE and HPLC.

Endotoxin

<1EU/ug of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

As a member of the epidermal growth factor receptor (EGFR) family, EGFR protein is type I transmembrane glycoprotein that binds a subset of EGF family ligands including EGF, amphiregulin, TGF-α, betacellulin, etc. EGFR protein plays a crucial role in signaling pathway in the regulation of cell proliferation, survival and differentiation. Binding of a ligand induces EGFR protein homo- or heterodimerization, the subsequent tyrosine autophosphorylation and initiates various down stream pathways (MAPK, PI3K/PKB and STAT). In addition, EGFR signaling also has been shown to exert action on carcinogenesis and disease progression, and thus EGFR protein is proposed as a target for cancer therapy currently.

Basic Information

Description

Recombinant Mouse EGFR/HER1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu25-Ser647) of Mouse EGFR/HER1 (Accession #NP_997538.1) fused with a His tag at the C-terminus.

Bio-Activity

Recombinant Mouse EGFR/HER1 Protein captured on CM5 Chip via anti-his antibody can bind Mouse EGF, hFc Tag with an affinity constant of 9.96 nM as determined in SPR assay (Biacore T200).

Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

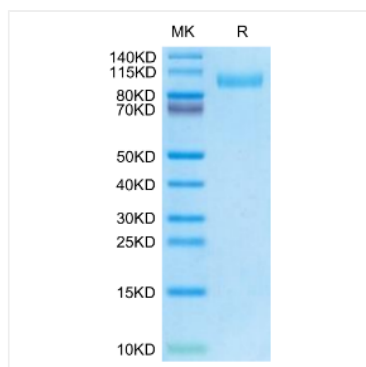
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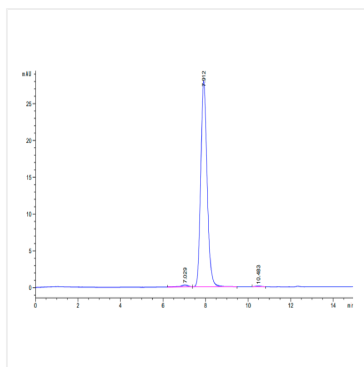
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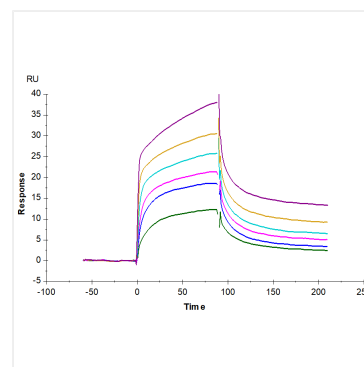
Validation Data



Recombinant Mouse EGFR/HER1 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 90-110 kDa.



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



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