

Recombinant Mouse EGFR/HER1 Protein

Catalog No.: RP03240

Sequence Information

Species **Gene ID**
Mouse 13649

Swiss Prot **Tags**
Q01279 C-6His

Synonyms

Egfr, Epidermal growth factor receptor

Product Information

Source **Purification**
HEK293 cells ≥ 95 % as determined by SDS-PAGE; ≥ 95 % as determined by HPLC.

Calculated MW **Observed MW**
70.60 kDa 100-130 kDa

Endotoxin

< 1 EU/μg 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.

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).

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

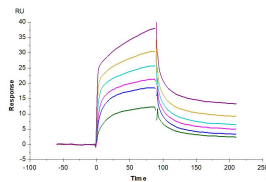
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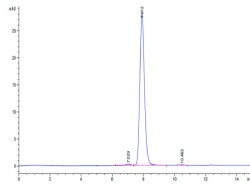
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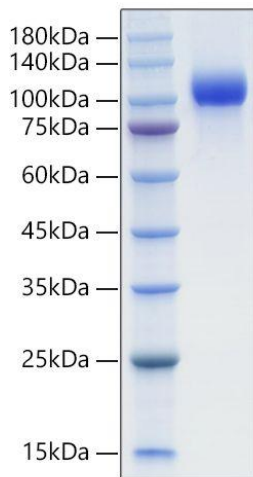
Validation Data



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).



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



Recombinant Mouse EGFR/HER1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.