Recombinant Human EGFR/HER1 Protein

Catalog No.: RP00499

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Sequence Information

Species
Human

Gene ID

Swiss Prot
P00533

Tags
C-hFc

Synonyms
EGFR, ERBB, ERBB1, HER1, NISBD2, PIG61, mENA, epidermal growth factor receptor,ERBB, ERBB1,HER1,NISBD2,PIG61,mENA

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE;≥ 95 % as determined by HPLC.

Calculated MW
110-140 kDa

Observed MW
95.2 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-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.

Basic Information

Description
Recombinant Human EGFR/HER1 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu25-Ser645) of Human EGFR/HER1 (Accession #P00533) fused with a C-hFc tag at the C-terminus.

Activity
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.

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℃

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

Contact

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Validation Data

No validation data available.