

Recombinant Human EGF Protein

RPCB0752

Description

This high-purity Recombinant Human EGF Protein is supplied as a kit for advanced applications. The kit includes Bradford Reagent to quantify total protein concentration for accurate sample normalization (Optional).

Protein Information

SKU:	RPCB0752
Contents:	50 µg, 100 µg Bradford Reagent: 1 vial (2ml)
Synonyms:	EGF, HOMG4, URG
Species:	Human
Gene ID:	1950
Expression Host:	HEK293 cells
Tags:	C-hFc&His
Calculated MW:	33.01 kDa
Observed MW:	40 kDa
Purification:	≥ 90 % as determined by SDS-PAGE.
Endotoxin:	< 0.1 EU/µg of the protein by LAL method.
Formulation:	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.
Bio- Activity:	1. Measured by its ability to stimulate EGF Receptor autophosphorylation in A431 cells. 1-10 ng/mL of Recombinant Human EGF can effectively enhance EGF Receptor autophosphorylation.

Manufacturers Statement - This final kit system is assembled and quality-released by Assay Genie Limited

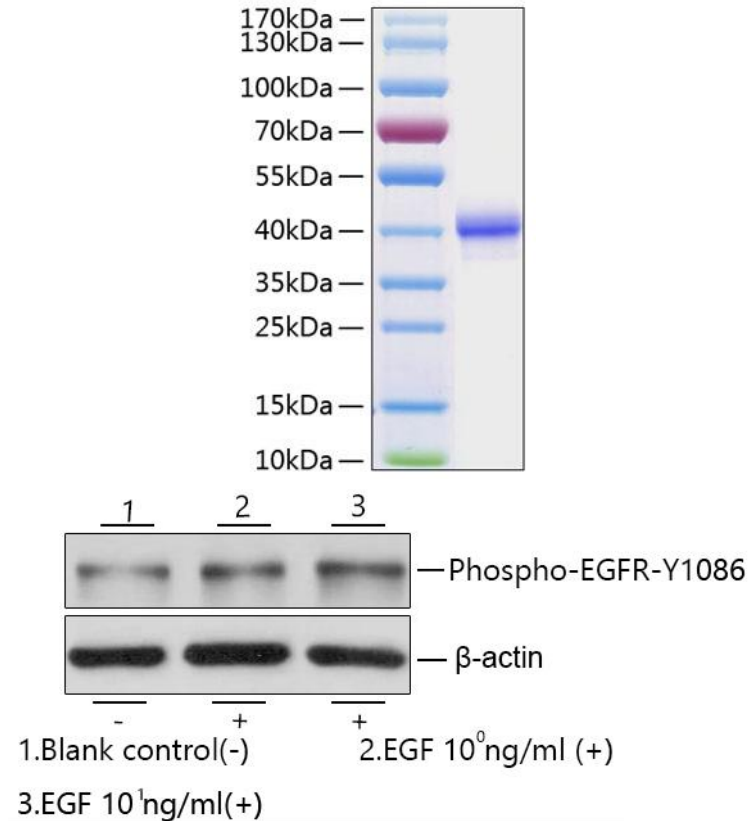
2. Measured by its binding ability in a functional ELISA. Immobilized Human EGFR at 5 µg/mL (100 µL/well) can bind Human EGF with a linear range of 7-25 ng/mL.
3. Measured in a cell proliferation assay using BALB/c 3T3 mouse embryonic fibroblasts. The ED 50 for this effect is typically 0.065-0.26 ng/mL, corresponding to a specific activity of 3.84×10^6 - 1.54×10^7 units/mg.

Preparation & Storage

- Shipping:** The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
- Storage:** Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Store Bradford Reagent at Room Temperature for 1 Year.
- 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.
- Protein Quantification (Optional):** To quantify total protein levels, use the Bradford Reagent included in this kit. Visit <https://www.assaygenie.com/bradford-protein-assay-protocol/> to view the full protocol.

Validation Data

Image



Description

Recombinant Human EGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

Recombinant Human EGF enhances EGF Receptor autophosphorylation in A431 cells. 1-10 ng/mL of Recombinant Human EGF can effectively enhance EGF Receptor autophosphorylation.

Recombinant Human EGF promotes the proliferation of BALB/c 3T3 mouse embryonic fibroblasts cells. The ED50 for this effect is typically 0.065-0.26 ng/mL, corresponding to a specific activity of 3.84×10⁶-1.54×10⁷units/mg.

