

Recombinant Human EGF Protein

Catalog No.: RP01030

Sequence Information

Species	Gene ID
Human	1950
Swiss Prot	Tags
P01133	C-hFc&His

Synonyms

EGF,HOMG4,URG

Background

Epidermal growth factor (EGF) is the founding member of the EGF family that also includes TGF- α , amphiregulin (AR), betacellulin (BTC), epiregulin (EPR), heparin binding EGF like growth factor (HB_x005f

Product Information

Source	Purification
HEK293 cells	$\geq 90\%$ as determined by SDS-PAGE.

Calculated MW	Observed MW
33.01 kDa	40 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

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

Basic Information

Description

Recombinant Human EGF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Asn 971–Arg 1023) of human EGF (Accession #NP_001954.2) fused with hFc, 6 $\times$ His tag at the C-terminus.

Activity

1. Recombinant Human EGF enhances EGF Receptor autophosphorylation in A431 cells. 1–10 ng/mL of Recombinant Human EGF can effectively enhance EGF Receptor autophosphorylation. 2. Immobilized Human EGFR at 5 μ g/mL (100 μ L/well) can bind Human EGF with a linear range of 7–25 ng/mL. 3. 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 3.84×10^6 – 1.54×10^7 units/mg. 4. Measured in a cell proliferation

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

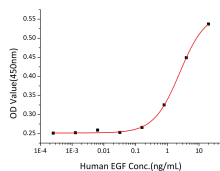
Operational Notes

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

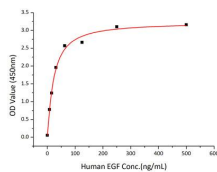
Contact

	400-999-6126
	cn.market@abclonal.com.cn
	www.abclonal.com.cn

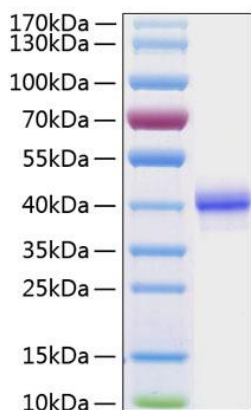
Validation Data



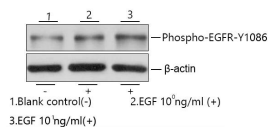
Measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED₅₀ for this effect is 1.23-4.93 ng/mL, corresponding to a specific activity of 2.03×10^5 ~ 8.13×10^5 units/mg.



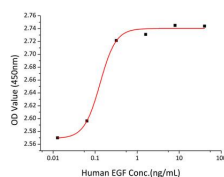
Immobilized Human EGFR at 5 µg/mL (100 µL/well) can bind Human EGF with a linear range of 7-25ng/mL.



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 3.84×10^6 ~ 1.54×10^7 units/mg.