

Active Recombinant Human EGF protein, hFc&His-tagged

Cat. No. EGF-61H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGF protein(Asn971-Arg1023), fused with C-terminal hFc and His tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	971-1023 aa
Form	Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.
Bio-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 µg/mL (100 µL/well) can bind Human EGF with a linear range of 7-25ng/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 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.
Molecular Mass	33.01 kDa
Endotoxin	< 0.1 EU/µg of the protein by LAL method.

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Purity	≥ 90 % as determined by SDS-PAGE.
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.
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.

GENE INFORMATION

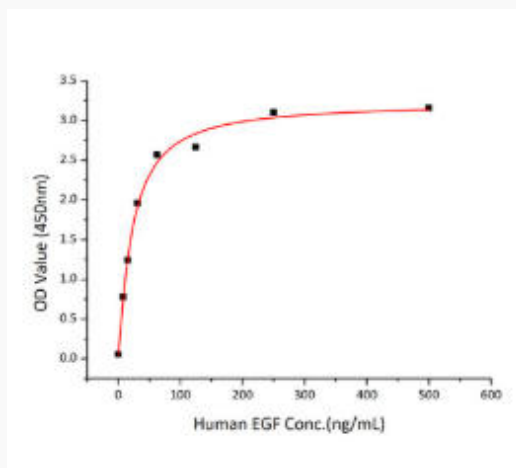
Gene Name	EGF epidermal growth factor [Homo sapiens]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4;
Gene ID	1950
mRNA Refseq	NM_001178130
Protein Refseq	NP_001171601
MIM	131530
UniProt ID	P01133

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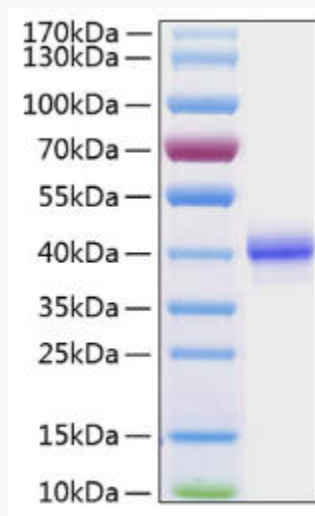
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Activity



SDS-PAGE



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