

# Active Recombinant Human Epidermal Growth Factor, biotinylated

**Cat. No.** EGF-556HB    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Biotinylated Active Recombinant Human Epidermal Growth Factor(NP_001954.2) (Asn971-Arg1023) was expressed and purified with an initial Met at the N-terminus.
<b>ProteinLength</b>	Asn971-Arg1023
<b>Tag</b>	Non
<b>Conjugation/Label</b>	Biotin
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4.
<b>Bio-activity</b>	1. iPSC-derived human vascular organoids (Day 7) were cultured with FGF2, VEGFA, EGF. Red arrows represent vascular organoids. Image taken at 10x magnification. 2. Measured in a cell proliferation assay using Balb/C 3T3 mouse embryonic fibroblasts. The ED50 for this effect is typically 0.02-0.2ng/ml. 3. Western blot analysis of extracts from serum-starved Hela, untreated (-) or treated with EGF(10 ng/mL, 30min) using Phospho-EGF Receptor (Tyr1068) rabbit monoclonal Antibody at 1:2000 dilution (upper), or Anti-EGFR Antibody, Rabbit Polyclonal at 1:2000 dilution (lower).
<b>Molecular Mass</b>	The recombinant human EGF consisting of 54 amino acids and has a calculated molecular mass of 6.35 kDa as estimated in SDS-PAGE under reducing conditions.
<b>Endotoxin</b>	< 5 EU per mg of the protein.

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<b>Purity</b>	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Conjugation</b>	Biotin

## GENE INFORMATION

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

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