Active Recombinant Human Epidermal Growth Factor, biotinylated

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

SPECIFICATION

Product Overview	Biotinylated Active Recombinant Human Epidermal Growth Factor(NP_001954.2) (Asn971-Arg1023) was expressed and purified with an initial Met at the N-terminus.
ProteinLength	Asn971-Arg1023
Tag	Non
Conjugation/Label	Biotin
Form	Lyophilized from sterile PBS, pH 7.4.
Bio-activity	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).
Molecular Mass	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.
Endotoxin	< 5 EU per mg of the protein.

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Purity	≥ 95 % as determined by SDS-PAGE. ≥ 95 % as determined by SEC-HPLC.
Storage	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.
Reconstitution	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.
Conjugation	Biotin

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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