

Active Recombinant Human EGF protein

Cat. No. EGF-08H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGF was expressed in Rice Grain.
Species	Human
Source	Rice Grain
Description	Human epidermal growth factor, also known as EGF, is a 6 kD protein with 53 amino acid residues and three intramolecular disulfide bonds. By binding with high affinity to epidermal growth factor receptor (EGFR) on the cell surface, EGF results in a variety of biochemical changes within the cell, rising intracellular calcium levels, increasing glycolysis, protein synthesis and regulating the gene expression, including the gene for EGFR that ultimately lead to DNA synthesis and cell proliferation.
Form	It is lyophilized with mannitol as the stabilizer.
Bio-activity	>1x10 ⁶ Units/mg.
Endotoxin	< 5 EU/mg
Purity	>95%
Applications	1. Mammalian cell culture; 2. Cosmetic and beauty care
Storage	Stored at - 20 centigrade for at least 12 months. Avoid repeated freeze-thaw cycles.

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Reconstitution	It is recommended to reconstitute the lyophilized the product in strile water. Use as soon as possible after opening.
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Shipping	Ice pack
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GENE INFORMATION

Gene Name	EGF epidermal growth factor [Homo sapiens]
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Official Symbol	EGF
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Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-epidermal growth factor; beta-urogastrone; URG; HOMG4;
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Gene ID	1950
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mRNA Refseq	NM_001178130
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Protein Refseq	NP_001171601
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MIM	131530
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UniProt ID	P01133
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Chromosome Location	4q25
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Pathway	Arf6 signaling events, organism-specific biosystem; Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; Ceramide signaling pathway, organism-specific biosystem; Cytokine-cytokine receptor interaction, organism-specific biosystem; Cytokine-cytokine receptor interaction, conserved biosystem;
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Delta-Notch Signaling Pathway, organism-specific biosystem;

Function

calcium ion binding; epidermal growth factor receptor binding; growth factor activity; protein binding; transmembrane receptor protein tyrosine kinase activator activity;

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