

Active Recombinant Human EGF Protein, Tag Free, GMP Grade

Cat. No. EGF-09H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGF Protein without tag was expressed in Yeast
Species	Human
Source	Yeast
Description	This gene encodes a member of the epidermal growth factor superfamily. The encoded preproprotein is proteolytically processed to generate the 53-amino acid epidermal growth factor peptide. This protein acts a potent mitogenic factor that plays an important role in the growth, proliferation and differentiation of numerous cell types. This protein acts by binding with high affinity to the cell surface receptor, epidermal growth factor receptor. Defects in this gene are the cause of hypomagnesemia type 4. Dysregulation of this gene has been associated with the growth and progression of certain cancers. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed.
Form	White or off-white lyophilized powder
Bio-activity	$1.2 \times 10^6 \text{U} \sim 2.0 \times 10^6 \text{U/mg pro}$. According to the method specified in the Chinese Pharmacopoeia 2020 edition, the biological activity is determined by assessing the stimulatory effect of EGF on mouse fibroblast cell line BALB/3T3.
Molecular Mass	$6.2 \pm 0.6 \text{ kDa}$

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Endotoxin	< 1 EU/μg
Purity	≥98%(SDS-PAGE); ≥98%(HPLC)
Applications	1. Cell Culture: Preparation of Serum-Free Medium; Cell Culture; Promotion of Cell Proliferation, Growth, and Differentiation 2. As a medication (gel, eye drops, etc.): Treatment of burn and scald wounds; Treatment of chronic ulcer wounds; Treatment of various fresh and difficult-to-heal skin wounds 3. As a Medication (e.g., gel, eye drops, etc.): Repair; Wrinkle reduction and anti-aging; Spot removal, etc.
Storage	Store at -15 to -20 centigrade, stable for up to 24 months.
Solubility	Soluble in water or buffer solution.

GENE INFORMATION

Gene Name	EGF epidermal growth factor [Homo sapiens (human)]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; URG; HOMG4; pro-epidermal growth factor; beta-urogastrone
Gene ID	1950
mRNA Refseq	NM_001963
Protein Refseq	NP_001954
MIM	131530

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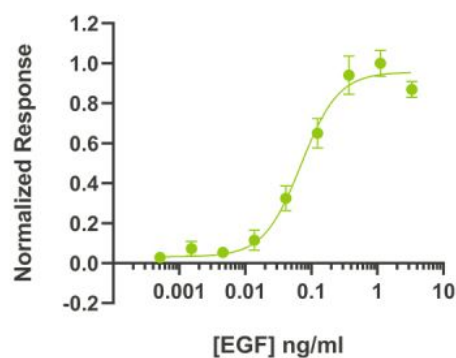
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UniProt ID

P01133

SDS-PAGE



HPLC

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