

Recombinant Human epidermal growth factor Protein, HA tagged

Cat. No. EGF-58H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human EGF Protein with C-HA and N-Glu-Ala was expressed in Yeast (animal free media and environment).
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.
Tag	C-HA; N-Glu-Ala
Form	Lyophilized
Bio-activity	The biological activity of Human Recombinant EGF was tested by its ability to promote the proliferation of BALB/c 3T3 cells. Cell proliferation was measured using a

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	fluorometric assay method. The EC50 is defined as the effective concentration of the growth factor at which cell proliferation is at 50 % of maximum, which is < 0.1ng/ml
Molecular Mass	7.4 kDa
AA Sequence	(EA)NSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVG YIGERCQYRDLKWWEL RYPYDVPDYA
Endotoxin	< 0.2 EU/μg of protein as determined by the LAL method.
Purity	0.98
Storage	Stable for at least one year at -20 centigrade. Upon reconstitution EGF can be stored at +4 centigrade for 2 weeks or at -20 centigrade for 6 months.
Concentration	100 μg/μL
Storage Buffer	Phosphate -buffered saline (PBS), pH 7.4
Reconstitution	Spin the vial briefly, add distilled sterile water.
References	1. Harris, R.C. et al. (2003) Exp. Cell Res. 284: 2. Carpenter, G. and Cohen, S. (1990) J. Biol. Chem. 265:7709.

GENE INFORMATION

Gene Name	EGF epidermal growth factor [Homo sapiens (human)]
Official Symbol	EGF
Synonyms	EGF; epidermal growth factor; epidermal growth factor (beta urogastrone); pro-

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epidermal growth factor; beta-urogastrone; URG; HOMG4

Gene ID 1950

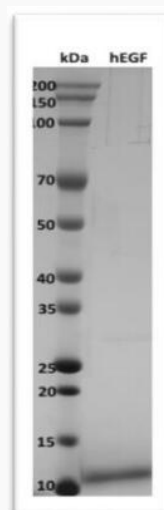
mRNA Refseq NM_001178130

Protein Refseq NP_001171601

MIM 131530

UniProt ID P01133

SDS-PAGE



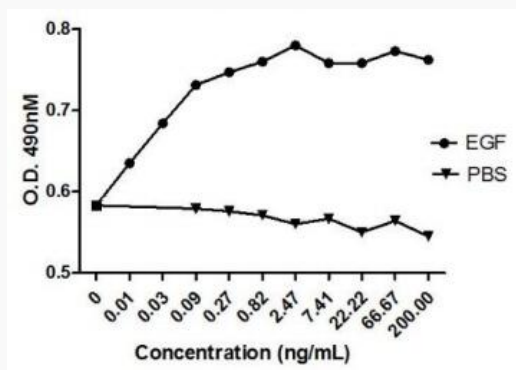
EGF was loaded and resolved on 8-22 % SDS-PAGE under non-reducing conditions and stained with Coomassie G-250.

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**EGF Induced
Proliferation of 3T3
cell-line**



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