

Recombinant Human EGF Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. EGF-5993H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	EGF MS Standard C13 and N15-labeled recombinant protein (NP_001954) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	133.9 kDa
AA Sequence	MLLTLIILLPVVSKFSFVLSAPQHWSCPEGTLAGNGNSTCVGPAPFLIFSHGNSIFRI DTEGTNYEQLVVDAGVSVIMDFHYNEKRIYWVDLERQLLQRVFLNGSRQERVCNIE KNVSGMAINWINEEVIWSNQQEGIIITVTDMKGNNSHILLSALKYPANVAVDPVERFIF

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WSSEVAGSLYRADLDGVGVKALLETSEKITAVSLDVLDKRLFWIQYNREGSNSLICS
 CDYDGGSVHISKHPTQHNLFAMSLFGDRIFYSTWKMKTIANKHTGKDMVRINLHS
 SFVPLGELKVHPLAQPKAEDDTWEPEQKLCKLRKGNCSSSTVCGQDLQSHLCMCA
 EGYALSRDRKYCEDVNECAFWNHGTCLGCKNTPGSYYCTCPVGVFLLPDGKRCHQ
 LVSCPRNVSECSHDCVLTSEGPLCFCEPGSVLERDGKTCSGCSSPDNGGCSQLCV
 PLSPVSWECDCFPGYDLQLDEKSCAASGPQPFLLFANSQDIRHMHFDGTDYGTLLS
 QQMGMVYALDHDPVENKIYFAHTALKWIERANMDGSQRERLIEEGVDVPEGLAVD
 WIGRRFYWTDRGKSLIGRSDLNKRSKIITKENISQPRGIAPHMAKRLFWTDTGINP
 RIESSSLQGLGRLVIASSDLIWPSGITIDFLTDLKYWCDAKQSVIEMANLDGSKRRRLT
 QNDVGHPFAVAVFEDYVWFSDWAMPSVIRVKNRTGKDRVRLQGSMLKPSSLVVH
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 GGEVDLKNQVTPDLILSKTRVSEDNITESQHMLVAEIMVSDQDDCAPVGCSMYARCI
 SEGEDATCQCLKGFAGDGKLCSDIDECMGVPVCPPASSKCINTEGGYVCRCSEG
 YQGDGIHCLDIDECQLGVHSCGENASCTNTEGGYTCMCAGRLSEPLICPDSTPPP
 HLREDDHHYSVRNSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVG YIGERCQ
 YRDLKWWELRHAGHGQQQKVIVVAVCVVVLVMLLLL SLWGAHYRYRTQKLLSKNPK
 NPYEESSRDVRSRRPADTEDGMSSCPQPWFVVIKEHQDLKNGGQPVAGEDGQAA
 DGSMQPTSWRQEPQLCGMGTEQGCWIPVSSDKGSCPQVMERSFHMPSYGTQTL
 EGGVEKPHSLLSANPLWQQRALDPPHQMELTQTRTRPLEQKLISEEDLAANDILDYK
 DDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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-epidermal growth factor; beta-urogastrone; URG; HOMG4;

Gene ID 1950

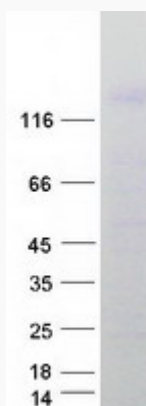
mRNA Refseq NM_001963

Protein Refseq NP_001954

MIM 131530

UniProt ID P01133

SDS-PAGE



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