

Product datasheet for **TP310817M**

EGF (NM_001963) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human epidermal growth factor (beta-urogastrone) (EGF), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC210817 protein sequence Red =Cloning site Green =Tags(s)

MLLTLIILLPVVSKFSFVLSAPQHWSCPEGLAGNGNSTCVGPAPFLIFSHGNSIFRIDTEGTNYEQLV
VDAGVSVIMDFHYNEKRIYWVDLERQLLQRVFLNGSRQERVNCIEKNVSGMAINWINEEVIWSNQEGII
TVTDMKGNNSHILLSALKYPANVAVDVPERFIFWSSEVAGSLYRADLDGVGVKALLETSEKITAVSLDVL
DKRLFWIQYNREGSNSLICSDYDGGSVHISKHPTQHNLFAMSLFGDRIFYSTWKMKTIIWANKHTGKDM
VRINLHSSFVPLGELKVVHPLAQPKAEDDTWEPEQKLCCLRKGNCSSVCGQDLQSHLCMCAEGYALSRD
RKYCEDVNECAFWNHGCTLGCKNTPGSYYCTCPVGFVLLPDGKRCHQLVSCP RNVSECSHDCVLTSEGPL
CFCPEGSVLERDGTCSGCSSPDNNGGCSQLCVPLSPVSWECDCFPGYDLQLDEKSCAASGPQPFLFANS
QDIRHMHFDGTDYGTLLSQMGMVYALDHPVENKIYFAHTALKWIERANMDGSQRERLIEEGVDVPEGL
AVDWIGRRFYWTD RKGSLIGRSDLNGRSKIITKENISQPRGI AVHPMAKRLFWTDTGINPRIESSLQG
LGRLVIASSDLIWP SGITIDFLTDKLYWCD AKQSVIEMANLDGSKRRRLTQNDVGH PFAVAVFEDYVWFS
DWAMP SVIRV NKRTGKDRVRLQGSMLKPSLVVHPLAKPGADPCLYQNGGCEHICKR LGTAWCSCREG
FMKASDGKTC LALDGHQLLAGGEVDLKNQVTPLDILSKTRVSEDNITESQHMLVAEIMVSDQDDCAPVGC
SMYARCISEGEDATCQCLKGFAGDGKLCSDIDECEMGPVPCPPASSKCINTEGGYVCR CSEGYQGDGIHC
LDIDECQLGVHSCGENASCTNTEGGYTCMCAGRLSEPLICPDSTPPPHLREDDHHYSVRNSDSECLSH
DGYCLHDGVCMYIEALDKYACNCVVG YIGERCQYRDLKWWELRHAGHGQQKQVIVAVCVVVLVMLLLLS
LWGAHYRTQKLLSKNPKNPYEESSRDVRSRRPADTEDGMSSCPQPWFVVIKEHQDLKNGGQP VAGEDGQ
AADGSMQPTSWRQEPQLCGMGTEQGCWIPVSSDKGSCPQVMERSFHMP SYGTQTLEGGVEKPHSLLSANP
LWQQRALDPPHQMELTQ

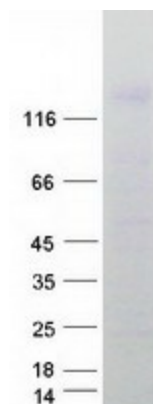
TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	131.6 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining



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Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001954
Locus ID:	1950
UniProt ID:	P01133
RefSeq Size:	5600
Cytogenetics:	4q25
RefSeq ORF:	3621
Synonyms:	HOMG4; URG
Summary:	<p>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. [provided by RefSeq, Jan 2016]</p>
Protein Families:	Adult stem cells, Druggable Genome, Embryonic stem cells, ES Cell Differentiation/IPS, Induced pluripotent stem cells, Transmembrane
Protein Pathways:	Bladder cancer, Cytokine-cytokine receptor interaction, Endocytosis, Endometrial cancer, ErbB signaling pathway, Focal adhesion, Gap junction, Glioma, MAPK signaling pathway, Melanoma, Non-small cell lung cancer, Pancreatic cancer, Pathways in cancer, Prostate cancer, Regulation of actin cytoskeleton

Product images:

Coomassie blue staining of purified EGF protein (Cat# [TP310817]). The protein was produced from HEK293T cells transfected with EGF cDNA clone (Cat# [RC210817]) using MegaTran 2.0 (Cat# [TT210002]).