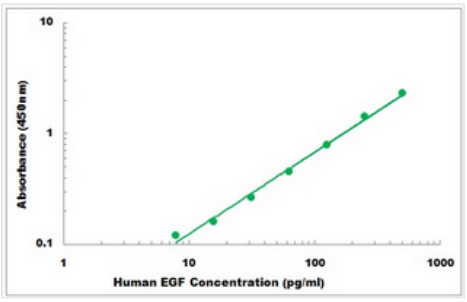
EGF ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	EGF, ELISA Kit
Full Product Name	Human EGF ELISA Kit
Product Gene Name	EGF elisa kit
Product Synonym Names	Pro-epidermal growth factor; EGF
Species Reactivity	Human
Assay Type	Sandwich
Samples	Cell Culture Supernatants, Serum, Plasma, Urine, Tissue Homogenates
Detection Range	7.8 pg/ml - 500 pg/ml
Sensitivity	4 pg/ml
Preparation and Storage	Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.
Molecular Weight	129,746 Da
OMIM	gene 611718
3D Structure	ModBase 3D Structure for P01133
Detection Method	Colorimetric
Applications Tested/Suitable for EGF elisa kit	Sandwich ELISA (SE)
Related Product Information for EGF elisa kit	Sandwich ELISA for quantitative detection of Human EGF concentrations.
Other Notes	Small volumes of EGF elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for EGF purchase	MBS824979 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the EGF, ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing EGF. The ELISA analytical biochemical technique of the MBS824979 kit is based on EGF antibody-EGF antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect EGF antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, EGF. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of EGF elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for EGF. It may not necessarily be applicable to this product.

NCBI GI #	296011013
NCBI GeneID	1950
NCBI Accession #	NP_001171601.1
UniProt Primary Accession #	P01133
UniProt Secondary Accession #	Q52LZ6; B4DRK7; E7EVD2; E9PBF0
UniProt Related Accession #	P01133
GenBank Nucleotide #	NM_001178130.1
NCBI Official Full Name	pro-epidermal growth factor isoform 2 preproprotein
NCBI Official Synonym Full Names	epidermal growth factor
NCBI Official Symbol	EGF
NCBI Official Synonym Symbols	URG; HOMG4
UniProt Protein Name	Pro-epidermal growth factor
UniProt Synonym Protein Names	Urogastrone
Protein Family	Pro-epidermal growth factor
UniProt Gene Name	EGF
UniProt Synonym Gene Names	EGF
UniProt Entry Name	EGF_HUMAN
NCBI Protein Information	pro-epidermal growth factor; beta-urogastrone
NCBI Summary for EGF	This gene encodes a member of the epidermal growth factor superfamily. The encoded protein is synthesized as a large precursor molecule that is proteolytically cleaved 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 the high affinity 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. Alternate splicing results in multiple transcript variants.[provided by RefSeq, May 2010]

UniProt Comments for EGF	EGF: EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. Magnesiotropic hormone that stimulates magnesium reabsorption in the renal distal convoluted tubule via engagement of EGFR and activation of the magnesium channel TRPM6. Defects in EGF are the cause of hypomagnesemia type 4 (HOMG4); also known as renal hypomagnesemia normocalciuric. HOMG4 is a disorder characterized by massive renal hypomagnesemia and normal levels of serum calcium and calcium excretion. Clinical features include seizures, mild-to mederate psychomotor retardation, and brisk tendon reflexes. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Ligand, receptor tyrosine kinase; Hormone; Membrane protein, integral Chromosomal Location of Human Ortholog: 4q25 Cellular Component: extracellular space; lysosomal membrane; plasma membrane; extracellular region; integral to membrane Molecular Function: protein binding; transmembrane receptor protein tyrosine kinase activator activity; growth factor activity; calcium ion binding; epidermal growth factor receptor binding Biological Process: negative regulation of epidermal growth factor receptor signaling pathway; transmembrane receptor protein tyrosine kinase activation (dimerization); peptidyl-tyrosine phosphorylation; nerve growth factor receptor signaling pathway; activation of MAPKK activity; positive regulation of transcription, DNA-dependent; signal transduction; positive regulation of MAP kinase activity; platelet degranulation; positive regulation of epidermal growth factor receptor activity; positive regulation of cell proliferation; angiogenesis; DNA replication; positive regulation of granule cell precursor proliferation; STAT protein nuclear translocation; positive regulation of DNA binding; epidermal growth factor receptor signaling pathway; platelet activation; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; positive regulation of mitosis; branching morphogenesis of a tube; innate immune response; negative regulation of secretion; blood coagulation; positive regulation of phosphorylation Disease: Hypomagnesemia 4, Renal
Research Articles on EGF	**1.** High serum EGF levels are associated with gastric and gastroesophageal junction cancers.
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