

Datasheet for ABIN1589620 **EGF Protein (Monomer)**



Overview

Quantity:	100 µg
Target:	EGF
Protein Characteristics:	Monomer
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Product Details	
Purpose:	EGF
Sequence:	MNSDSECPLS HDGYCLHDGV CMYIEALDKY ACNCVVGYIG ERCQYRDLKW WELR
Specificity:	Chromosomal location:4q25
Cross-Reactivity:	Mouse
Characteristics:	Length (aa):54
Purity:	> 95 % by SDS-PAGE

Endotoxin Level:

Target:	EGF
Alternative Name:	EGF (EGF Products)

< 0.1 ng/µg of protein (<1EU/µg)

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Target Details	
Background:	Epidermal growth factor (EGF) is the founding member of the EGF family that also includes
	TGFα, amphiregulin (AR), betacellulin (BTC), epiregulin (EPR), heparin-binding EGF-like growth
	factor (HBEGF), epigen, and the neuregulins (NRG) 1 through 6. Members of the EGF family
	share a structural motif, the EGF-like domain, which is characterized by three intra-molecular
	disulfide bonds that are formed by six similarly spaced conserved cysteine residues. All EGF
	family members are synthesized as type I transmembrane precursor proteins that may contain
	several EGF domains in the extracellular region. The mature proteins are released from the cell
	surface by regulated proteolysis. The 1207 amino acid (aa) human EGF precursor contains nine
	EGF domains and nine LDLR class B repeats. The mature protein consists of 53 aa and is
	generated by proteolytic excision of the EGF domain proximal to the transmembrane region.
	Mature human EGF shares 70 % aa sequence identity with mature mouse and rat EGF. EGF is
	present in various body fluids, including blood, milk, urine, saliva, seminal fluid, pancreatic juice,
	cerebrospinal fluid, and amniotic fluid. Four ErbB (HER) family receptor tyrosine kinases
	including EGFR/ErbB1, ErbB2, ErbB3 and ErbB4, mediate responses to EGF family members.
	EGF binds ErbB1 and depending on the context, induces the formation of homodimers or
	heterodimers containing ErbB2. Biological activities ascribed to EGF include epithelial
	development, angiogenesis, inhibition of gastric acid secretion, fibroblast proliferation, and
	colony formation of epidermal cells in culture.
	Synonyms: EGF, URG, HOMG4, Urogastrone, Epidermal growth factor
Molecular Weight:	6.35 kDa

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Gene ID:	1950
NCBI Accession:	NM_1963, NP_001954
UniProt:	P01133
Pathways:	NF-kappaB Signaling, RTK Signaling, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling
	Pathway, Neurotrophin Signaling Pathway, Regulation of Carbohydrate Metabolic Process,
	Hepatitis C, Protein targeting to Nucleus, Interaction of EGFR with phospholipase C-gamma,
	Thromboxane A2 Receptor Signaling, EGFR Downregulation

Application Details

Application Notes:	The biological activity was determined by the ability to induce EGF receptor phosphorylation in
	the A431 tumor cell line [Soler et al, J Chromatography B, 788, 2003] and the induction of
	proliferation in NHDF cells (Normal Human Dermal Fibroblasts).
Comment:	Cytokines & Growth Factors

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Application Details	
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	We recommend a quick spin followed by reconstitution in water to a concentration of 0.1- 1.0 mg/mL.
Buffer:	PBS
Handling Advice:	Centrifuge vial prior to opening.
Storage:	RT,-20 °C
Storage Comment:	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C. Reconstituted EGF should be stored in working aliquots at -20°C.