

EGF active protein

Human EGF

CATALOG #
AAA79221

HOST
E Coli

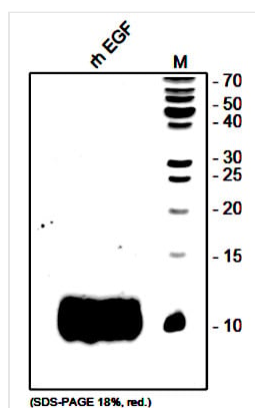
PRODUCT SYNONYMS

EGF; Human EGF; Recombinant Human EGF; Epidermal Growth Factor; Urogastrone; URG; EGF active protein

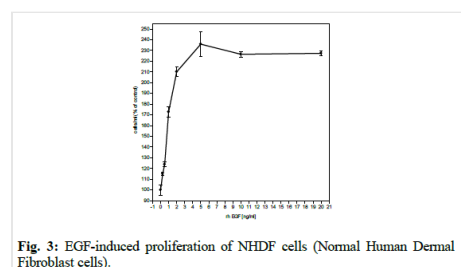
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE & silver stain
Form/Format	Lyophilized
Sequence	N-Terminal Sequence:M NSDSECPLS
Sequence Length	1166
Reconstitution	Centrifuge the vial prior to opening! We recommend a quick spin followed by reconstitution in water to a concentration of 0.1-1.0mg/ml. This solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or -20°C for future use.
Biological Activity	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)
Buffer	PBS
Preparation and Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20 degree C. Reconstituted EGF should be stored in working aliquots at -20 degree C.

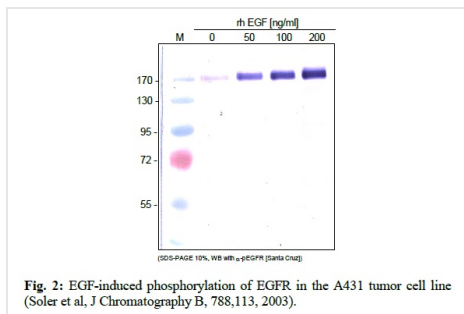
IMAGES



SDS-PAGE



Application Data



Application Data

ADDITIONAL INFORMATION

Related Product Information for EGF active protein	Epidermal growth factor (EGF) is the founding member of the EGF family that also includes TGFalpha, 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.
Product Categories/Family for EGF active protein	Cytokines & Growth Factors
References	1. Harris RC et al, Exp Cell Res 284:2, 2003 2. Carpenter G and Cohen S, J Biol Chem 265:7709, 1990 3. Bell GI et al, Nucl Acids Res 14:8427, 1986 4. Carpenter G and Zendejui JG, Exp Cell Res 164:1, 1986 5. Jorissen RN et al, Exp Cell Res 284:31, 2003 6. Gamett DC et al, J Biol Chem 272:12052, 1997 7. Qian X et al, Proc Natl Acad Sci 91:1500, 1994 8. Qian X et al, J Biol Chem 274:574, 1999

NCBI AND UNIPROT INFORMATION

NCBI GI #	296011013
NCBI GeneID	1950
NCBI Accession #	NP_001954.2
NCBI GenBank Nucleotide #	NM_001178131
UniProt Accession #	P01133; Q52LZ6; B4DRK7; E7EVD2; E9PBF0
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
NCBI Protein Information	pro-epidermal growth factor; beta-urogastrone
UniProt Protein Name	Pro-epidermal growth factor
UniProt Gene Name	EGF
UniProt Synonym Gene Names	EGF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/egf/79221>