

Epidermal Growth Factor Active Protein | rEGF active protein

Recombinant Rat Epidermal Growth Factor

CATALOG #
AAA38725

HOST
E Coli

PRODUCT SYNONYMS

Epidermal Growth Factor; Recombinant Rat Epidermal Growth Factor; EGF Rat; Epidermal Growth Factor Rat Recombinant; Urogastrone; URG; EGF; rEGF active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 98.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	Rat EGF was lyophilized from a 0.2 um filtered concentrated (1.0mg/ml) solution in PBS, pH 7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	NSNTGCPPSY DGYCLNGGVC MYVESVDRYV CNCVIGYIGE RCQHRDLRWW KLR
Sequence Length	1133
Solubility	It is recommended to reconstitute the lyophilized Rat EGF in sterile water not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells is less than 0.1ng/ml, corresponding to a specific activity of > 10,000,000 units/mg.
Preparation and Storage	Lyophilized Rat EGF although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution Rat EGF should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for rEGF active protein	Description: Epidermal Growth Factor Rat Recombinant produced in E Coli is a single, non-glycosylated, polypeptide chain containing 53 amino acids and having a molecular mass of 6151 Dalton. The Rat EGF is purified by proprietary chromatographic techniques. Introduction: Epidermal growth factor has a profound effect on the differentiation of specific cells in vivo and is a potent mitogenic factor for a variety of cultured cells of both ectodermal and mesodermal origin. The EGF precursor is believed to exist as a membrane-bound molecule which is proteolytically cleaved to generate the 53-amino acid peptide hormone that stimulates cells to divide.EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture.
Product Categories/Family for rEGF active protein	Cytokines and Growth Factors; Growth Factors; Epidermal Growth Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978797
NCBI GeneID	25313
NCBI Accession #	NP_036974.1
NCBI GenBank Nucleotide #	NM_012842.1

UniProt Accession #	P07522 ; Q63183
Molecular Weight	124,126 Da
NCBI Official Full Name	pro-epidermal growth factor
NCBI Official Synonym Full Names	epidermal growth factor
NCBI Official Symbol	Egf
NCBI Protein Information	pro-epidermal growth factor
UniProt Protein Name	Pro-epidermal growth factor
UniProt Gene Name	Egf
UniProt Synonym Gene Names	EGF
UniProt Entry Name	EGF_RAT

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-regf-active-protein/epidermal-growth-factor/38725>