

Recombinant mouse EGF protein

Catalog Number: ATGP1532

PRODUCT INFORMATION

Expression system

E.coli

Domain

977-1029aa

UniProt No.

P01132

NCBI Accession No.

NP_034243.2

Alternative Names

epidermal growth factor

PRODUCT SPECIFICATION

Molecular Weight

8.6 kDa (77aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Recombinant mouse epidermal growth factor (EGF) is a 8.6 kDa globular protein containing 77 amino acids residues, including 3 intra-molecular disulfide bonds. EGF is a potent growth factor that stimulates the proliferation of various epidermal and epithelial cells. Additionally, EGF has been shown to inhibit gastric secretion, and to be involved in wound healing. EGF signals through a receptor known as c-erbB, which is a class I tyrosine kinase receptor. Recombinant mouse EGF protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by conventional column chromatography, after refolding of the isolated inclusion bodies in a

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renaturation buffer.

Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH MGSM>NSYPGC PSSYDGYCLN GGVCMHIESL DSYTCNCVIG YSGDRCQTRD LRWWELR

General References

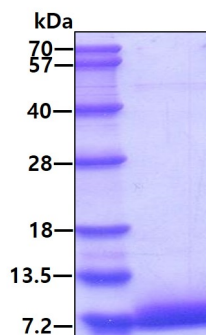
Riese., et al (1998) Bioessays. 20: 41-48.

Cohen S., (1983) Cancer. 15: 1787-1791.

Carpenter G., et al (1979) Annu. Rev. Biochem., 48: 193-216.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.