

AR50356PU-N**Mouse EGF (977-1029, His-tag) - Purified**

Alternate names: Epidermal growth factor, HOMG4, Pro-epidermal growth factor, URG, Urogastrone

Quantity: 0.1 mg

Concentration: 0.5mg/ml (determined by Bradford assay)

Uniprot ID: [P01132](#)

NCBI: [10090](#)

GeneID: [13645](#)

Species: Mouse

Source: E. coli

Format: **State:** Liquid purified protein
Purity: >90% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 10% glycerol, 100mM NaCl

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 renaturation buffer.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSMSYPGC PSSYDGYCLN GGVCMHIESL DSYTCNCVIG
YSGDRCQTRD LRWWEELR

Molecular weight: 8.6 kDa (77aa), confirmed by MALDI-TOF

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings: 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.

Pictures:

