Recombinant Mouse EGF

20160507BB

FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	**M10-002**
Size:	100 µg
Lot. No.:	According to product label

Scientific Background

Gene-ID (NCBI):	*13645*
Synonyms:	Epidermal growth factor; Egf; AI790464

Epidermal Growth Factor (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. This receptor also binds with TGF-α and VGF (vaccinia virus growth factor). Recombinant murine EGF is a 6.0 kDa globular protein containing 53 amino acid residues, including 3 intramolecular disulfide-bonds.

Sequence

NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD
RCQTRDLRWW ELR

Database References

Protein RefSeq:	NP_034243.2
Uniprot ID:	P01132
mRNA RefSeq:	NM_010113.3

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	53
MW:	6.0 kDa

Stability: The lyophilized protein is stable at room temperature for 1 month and at 4°C for 6 months. Reconstituted working aliquots are stable for 1 week at 2°C to 8°C and for 12 months at -20°C to -80°C.

Reconstitution: Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.5-1.0 mg/m. *Do not vortex*. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

AVOID REPEATED FREEZE AND THAW CYCLES!

Biological Activity: The ED_{50} was determined by a cell proliferation assay using BALB/c 3T3 cells is ≤ 0.1 ng/ml, corresponding to a specific activity of ≥ 1 x 10^7 units/mg.