

## **Technical Data Sheet**

Bio Basic Inc.

## Recombinant Murine Epidermal Growth Factor (rMu EGF)

## Murine Epidermal Growth Factor

EGF was originally discovered in crude preparations of nerve growth factor prepared from mouse submaxillary glands as an activity that induced early eyelid opening, incisor eruption, hair growth inhibition, and stunting of growth when injected into newborn mice. 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-alpha and VGF (vaccinia virus growth factor).

Catalog Number:	RC236-15
Source:	Escherichia coli.
Molecular Weight:	6.0 kDa, a single non-glycosylated polypeptide chain containing 53 amino acids, including 3 intramolecular disulfide-bonds.
Quantity:	100ug/500ug/1000µg
Purity:	97% by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The $ED_{50}$ as calculated by the dose-dependant proliferation of murine BALB/c 3T3 cells (measured by <sup>3</sup> H-thymidine uptake) is less than 0.1 ng/ml,_corresponding to a specific activity of > 1, 10 <sup>7</sup> mile (measured)
	1 x 10 <sup>7</sup> units/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.
AA Sequence:	NSYPGCPSSY DGYCLNGGVC MHIESLDSYT CNCVIGYSGD RCQTRDLRWW ELR
Endotoxin:	Less than 1EU/ $\mu$ g of rmEGF as determined by LAL method.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq$ -20°C. Further dilutions should be made in appropriate buffered solutions.



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stable for up to one week at 2-8°C. For maximal stability, reconstituted preparation into working aliquots and store at -2 Avoid repeated freeze/thaw cycles.	
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