

## Active Recombinant Mouse Egf (977-1029aa), Met tagged

Cat. No. Egf-038E Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Egf (Asn977 Arg1029, with an Nterminal Met ) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</b>	Epidermal growth factor (EGF) is the founding member of the EGF family that also includes TGF $\mu$ , amphiregulin (AR), betacellulin (BTC), epiregulin (EPR), heparin-binding EGFl like growth factor (HBEGF), epigen, and the neuregulins (NRG)1 through 6. Members of the EGF family share a structural motif, the EGFl like domain, which is characterized by three intramolecular disulfide bonds that are formed by six similarly spaced conserved cysteine residues. All EGF family members are synthesized as type I transmembrane precursor proteins that may contain several EGF domains in the extracellular region. The mature proteins are released from the cell surface by regulated proteolysis. Biological activities ascribed to EGF include epithelial development, angiogenesis, inhibition of gastric acid secretion, fibroblast proliferation, and colony formation of epidermal cells in culture.
<b>Nterminal Sequence Analysis</b>	Met
<b>Molecular Mass</b>	6.2 kDa
<b>Activity</b>	Measured in a cell proliferation assay using Balb/3T3 mouse embryonic fibroblasts.

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	The ED50 for this effect is typically 20 - 100 µg/mL.
<b>Endotoxin Level</b>	<1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA. See Certificate of Analysis for details.
<b>Reconstitution</b>	Reconstitute at 0.1 mg/mL in sterile PBS.
<b>Shipping</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 1. 12 months from date of receipt, 20 to 70 °C as supplied. 2. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3. 3 months, 20 to 70 °C under sterile conditions after reconstitution.

## GENE INFORMATION

<b>Gene Name</b>	Egf epidermal growth factor [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Egf
<b>Synonyms</b>	Egf; epidermal growth factor; AI790464; pro-epidermal growth factor; Pro-epidermal growth factor precursor (EGF)
<b>Gene ID</b>	13645
<b>mRNA Refseq</b>	NM_010113

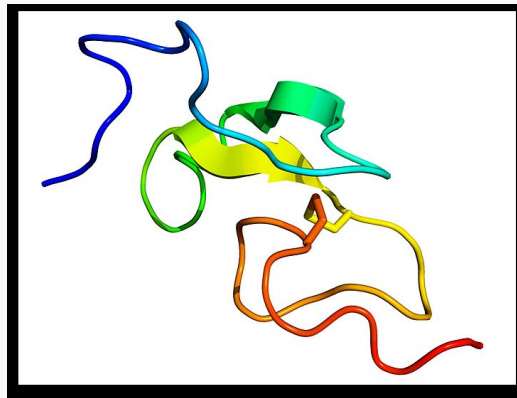
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<b>Protein Refseq</b>	NP_034243
<b>Chromosome Location</b>	3 G3; 3 65.2 cM
<b>Pathway</b>	Delta-Notch Signaling Pathway; EGFR1 Signaling Pathway; ESC Pluripotency Pathways; ErbB signaling pathway; MAPK signaling pathway; TGF Beta Signaling Pathway
<b>Function</b>	calcium ion binding; epidermal growth factor receptor binding; growth factor activity; protein binding

Rainbow colored NMRstructure (N-terminus = blue, C-terminus = red) of the mouse epidermal growthfactor.



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