

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

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

SPECIFICATION

Product Overview	Recombinant Mouse Egf (Asn977 Arg1029, with an Nterminal Met) was expressed in E. coli and produced using nonanimal reagent in an animalfree laboratory.
Species	Mouse
Source	E.coli
Description	Epidermal growth factor (EGF) is the founding member of the EGF family that also includes TGF μ , amphiregulin (AR), betacellulin (BTC), epiregulin (EPR), heparin-binding EGFlke growth factor (HBEGF), epigen, and the neuregulins (NRG)1 through 6. Members of the EGF family share a structural motif, the EGFlke 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.
Nterminal Sequence Analysis	Met
Molecular Mass	6.2 kDa
Activity	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 pg/mL.
Endotoxin Leve	<1.0 EU per 1 µg of the protein by the LAL method.
Purity	>97%, by SDSPAGE under reducing conditions and visualized by silver stain.
Formulation	Lyophilized from a 0.2 µm filtered solution in Acetonitrile and TFA. See Certificate of Analysis for details.
Reconstitution	Reconstitute at 0.1 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Storage	Use a manual defrost freezer and avoid repeated freezethaw 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

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

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Protein Refseq	NP_034243
Chromosome Location	3 G3; 3 65.2 cM
Pathway	Delta-Notch Signaling Pathway; EGFR1 Signaling Pathway; ESC Pluripotency Pathways; ErbB signaling pathway; MAPK signaling pathway; TGF Beta Signaling Pathway
Function	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. 	