

Active Recombinant Mouse Egf Protein

Cat. No. Egf-052M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse epidermal growth factor (Egf) without tag was expressed in E.coli.
Species	Mouse
Source	E.coli
Description	This gene encodes epidermal growth factor (EGF), the founding member of the EGF family of growth factors that are implicated in cell proliferation and differentiation. The encoded protein can localize to the membrane and function in juxtacrine signaling or undergo proteolytic processing to generate a soluble form of the hormone. Mice lacking the encoded protein do not exhibit an abnormal phenotype but transgenic mice overexpressing the encoded protein exhibit hypospermatogenesis.
Bio-activity	The ED50 was determined by a cell proliferation assay using BALB/c 3T3 cells is less than or equal to 0.1 ng/ml, corresponding to a specific activity of $> 1 \times 10^7$ units/mg.
Molecular Mass	6 kDa
AA Sequence	NSYPGCPSSYDGYCLNGGVCMHIESLDSYTCNCVIGYSGDRCQTRDLRWWELR
Endotoxin	Endotoxin level is < 0.1 ng/g of protein (< 1 EU/g)
Purity	$>95\%$, as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for at least 6 months from date of receipt under proper storage and handling conditions.
Storage	Store at -80 centigrade.
Storage Buffer	Lyophilized from a 0.2 M filtered solution of 20mM phosphate buffer, 100mM NaCl, pH 7.2
Reconstitution	Resuspend the protein in the desired concentration in proper buffer.

GENE INFORMATION

Gene Name	Egf epidermal growth factor [Mus musculus (house mouse)]
Official Symbol	Egf
Synonyms	Egf; epidermal growth factor; A1790464; pro-epidermal growth factor; Pro-epidermal growth factor precursor (EGF)
Gene ID	13645
mRNA Refseq	NM_010113
Protein Refseq	NP_034243
UniProt ID	P01132

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