

Active Recombinant Mouse Egf Protein

Cat. No. Egf-053M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse epidermal growth factor (Egf) (Asn977-Arg1029) without tag was expressed in E.coli.
Species	Mouse
Source	E.coli
ProteinLength	977-1029 a.a.
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 is 1-2 ng/ml, corresponding to a specific activity $5 \times 10^5 - 1 \times 10^6$ units/mg, determined by a dose-dependent inhibition on A431 cells proliferation.
Molecular Mass	6 kDa
Endotoxin	Less than 0.01 ng per g protein as determined by the LAL method
Purity	>98%, as determined by Coomassie stained SDS-PAGE.

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Stability	Unopened vial can be stored between 2 centigrade and 8 centigrade for up to 2 weeks, at -20 centigrade for up to 6 months, or at -70 centigrade or below until the expiration date. Aliquots can be stored between 2 centigrade and 8 centigrade for up to one week and stored at -20 centigrade or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
Storage	Store at -80 centigrade.
Concentration	Protein formulated and vialled at >50 ug/mL in specified buffer
Storage Buffer	1 x PBS

GENE INFORMATION

Gene Name	Egf epidermal growth factor [<i>Mus musculus</i> (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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