

## Active Recombinant Mouse Egf Protein

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified recombinant protein of Mouse epidermal growth factor (Egf) (Asn977-Arg1029) without tag was expressed in E.coli.                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 977-1029 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | 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. |
| <b>Bio-activity</b>     | 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.                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | 6 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Endotoxin</b>        | Less than 0.01 ng per $\mu$ g protein as determined by the LAL method                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | >98%, as determined by Coomassie stained SDS-PAGE.                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

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|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Stability</b>      | 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. |
| <b>Storage</b>        | Store at -80 centigrade.                                                                                                                                                                                                                                                                                                                                          |
| <b>Concentration</b>  | Protein formulated and vialled at >50 ug/mL in specified buffer                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b> | 1 x PBS                                                                                                                                                                                                                                                                                                                                                           |

## GENE INFORMATION

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

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