

# Recombinant Mouse EGF Protein

Catalog No.: RP01684 **Recombinant**

## Sequence Information

**Species** Mouse **Gene ID** 13645 **Swiss Prot** P01132

**Tags**  
No-tag

### Synonyms

beta-urogastrone; EGF; epidermal growth factor (beta-urogastrone); epidermal growth factor; HOMG4; pro-epidermal growth factor; URG; Urogastrone

## Product Information

**Source** *Pichia* **Purification**  $\geq 95\%$  as determined by SDS-PAGE.

**Calculated MW** 6.45 kDa **Observed MW** 11 kDa

### Endotoxin

< 1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze/thaw cycles.

## Background

EGF is the founding member of the EGF-family of proteins. Members of this protein family have highly similar structural and functional characteristics. EGF contains 9 EGF-like domains and 9 LDL-receptor class B repeats. Human EGF is a 6045-Da protein with 53 amino acid residues and three intramolecular disulfide bonds. As a low-molecular-weight polypeptide, EGF was first purified from the mouse submandibular gland, but since then it was found in many human tissues including submandibular gland, parotid gland.

## Basic Information

### Description

Recombinant Mouse EGF Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Asn977-Arg1029) of mouse EGF (Accession #NP\_034243.2) fused with no additional amino acid.

### Bio-Activity

Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED<sub>50</sub> for this effect is 37-148 pg/mL, corresponding to a specific activity of  $7.14 \times 10^6 \sim 2.50 \times 10^7$  units/mg.

### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

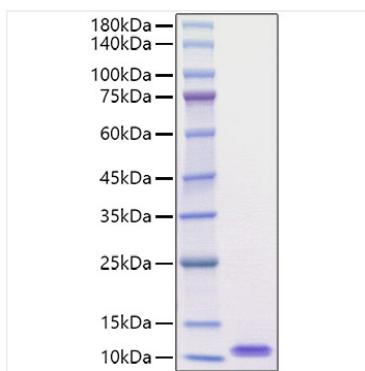
### Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

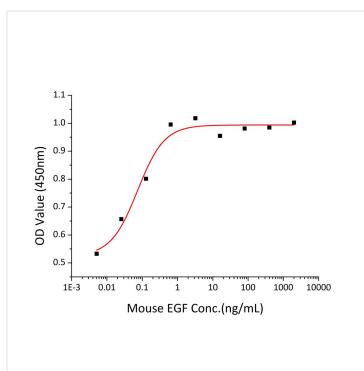
## Contact

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## Validation Data



Recombinant Mouse EGF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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