

Catalog No.: RP01684 **Recombinant**

Species	Gene ID	Swiss Prot
Mouse	13645	P01132

No-tag

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

Source	Purification
<i>Pichia</i>	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
6.45 kDa	11 kDa

< 1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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 free-thaw cycles.

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.

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.

Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED₅₀ for this effect is 37-148 pg/mL, corresponding to a specific activity of 7.14×10⁶~2.50×10⁷ units/mg.

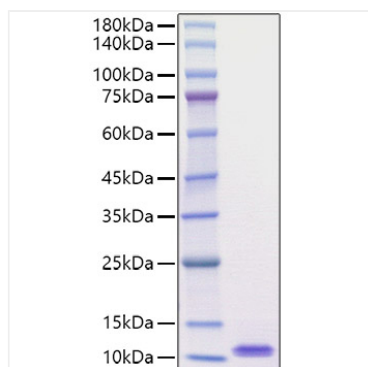
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

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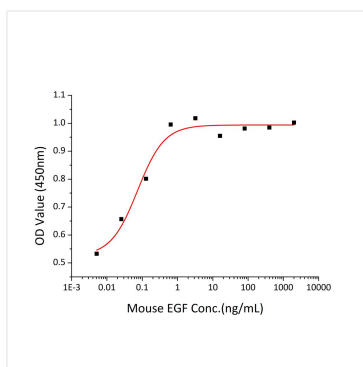
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Validation Data



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



Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED_{50} 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.