

Recombinant Mouse EGF Protein

Catalog No.: RP01684 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	13645	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	Purification
<i>Pichia</i>	> 97% by SDS-PAGE.

Calculated MW	Observed MW
6.45 kDa	11 kDa

Endotoxin

<1EU/ μ g

Formulation

Lyophilized from a 0.22 μ 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 free-thaw cycles.

Contact

		400-999-6126
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		cn.market@abclonal.com.cn
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		www.abclonal.com.cn
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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 ED₅₀ for this effect is 37-148 pg/mL, corresponding to a specific activity of 7.14 \times 10⁶~2.50 \times 10⁷ units/mg.

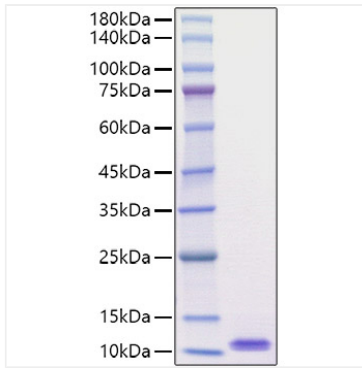
Storage

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

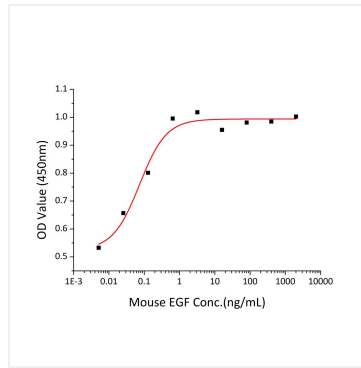
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Mouse EGF Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 11 kDa.



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.