

Recombinant Mouse EGF Protein

Catalog No.: RP01684

Sequence Information

Species **Gene ID**
Mouse 13645

Swiss Prot **Tags**
P01132 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**
Pichia ≥ 95 % as determined by SDS-PAGE.

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

Endotoxin

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

Formulation

Lyophilized from a 0.22 μm 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.

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.

Activity

1. Measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED₅₀ for this effect is 0.16–0.63 ng/mL, corresponding to a specific activity of 1.59×10⁶~6.25×10⁶ units/mg.
2. Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED₅₀ for this effect is 20.3–81.2 pg/mL, corresponding to a specific activity of 1.23×10⁷~4.93×10⁷ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

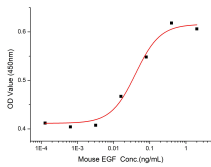
Contact

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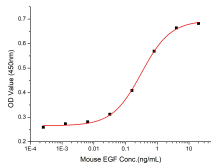
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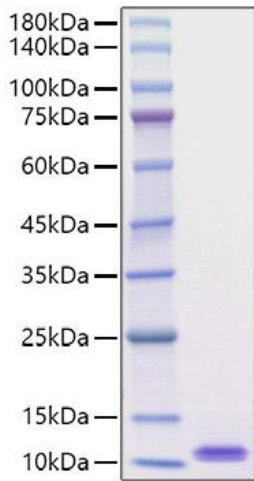
Validation Data



Measured in a cell proliferation assay using BALB/3T3 mouse fibroblasts. The ED₅₀ for this effect is 20.3-81.2 pg/mL, corresponding to a specific activity of $1.23 \times 10^7 \sim 4.93 \times 10^7$ units/mg.



Measured in a cell proliferation assay using 4MBr-5 rhesus monkey epithelial cells. The ED₅₀ for this effect is 0.16-0.63 ng/mL, corresponding to a specific activity of $1.59 \times 10^6 \sim 6.25 \times 10^6$ units/mg.



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