

APENBIC EGF, murine recombinant

Information

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| philized from a 0.2 µm filtered solution in PBS, pH 7.4. |
| recommend that this vial be briefly centrifuged prior to opening to bring the tents to the bottom. Reconstitute in sterile distilled water or aqueous buffer taining 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions buld be apportioned into working aliquots and stored at \leq -20 °C. Further tions should be made in appropriate buffered solutions. |
| ly biologically active when compared to standard. The ED ₅₀ as determined a cell proliferation assay using murine Balb/c 3T3 cells is less than 0.1 ng/m responding to a specific activity of > 1.0 × 10 ⁷ IU/mg. |
| pack. |
| ntrifuge the vial prior to opening. |
| Research Use Only! Not to be used in humans. |
| |

Components and Storage

| Perfection | | |
|-------------------------|--------|--------|
| Components | 100 µg | 500 µg |
| EGF, murine recombinant | 100 µg | 500 µg |

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

| Quality Control | Prom | |
|-----------------|---|----------------------|
| Purity | > 97 % by SDS-PAGE and HPLC analyses. | Profession Careeroon |
| Endotoxin | Less than 1 EU/µg of rMuEGF as determined | by LAL method. |

Description

Epidermal Growth Factor (EGF) was originally discovered in crude preparations of nerve growth factor prepared from mouse submaxillary glands as an activity that induced early eyelid opening, incisor eruption, hair growth inhibition, and stunting of growth when injected into newborn mice. It is prototypic of a family of growth factors that are derived from membrane-anchored precursors. All members of this family are characterized by the presence of at least one EGF structural unit (defined by the presence of a conserved 6 cysteine motif that forms three disulfide bonds) in their extracellular domain. EGF is initially synthesized as a 130 kDa precursor transmembrane protein containing 9 EGF units. The mature soluble EGF sequence corresponds to the EGF unit located proximal to the transmembrane domain. The membrane EGF precursor is capable of binding to the EGF receptor and was reported to be biologically active. Mature mouse EGF shares 70 % a.a. sequence identity with mature human EGF.

Reference

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- 2. Gehm BD, McAndrews JM, Jordan VC, et al. 2000. Mol Cell Endocrinol, 159: 53-62.
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