

EGF (Epidermal growth factor), Mouse

v. 231101

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| Catalog number | C02068-5UG / C02068-20UG / C02068-100UG |
| Package | 5 µg / 20 µg / 100 µg |
| Description | Epidermal growth factor (EGF) stimulates cell growth and differentiation by binding to its receptor, EGFR. Human EGF is a 6-kDa protein with 53 amino acid residues and three intramolecular disulfide bonds. EGF is present in various body fluids, including blood, milk, urine, saliva, seminal fluid, pancreatic juice, cerebrospinal fluid, and amniotic fluid. Biological activities ascribed to EGF include epithelial development, angiogenesis, inhibition of gastric acid secretion, fibroblast proliferation, and colony formation of epidermal cells in culture. |
| Source | <i>Escherichia coli</i> |
| Sequence | MNSYPGCPSSYDGYCLNGGVCMHIESLDSYTCNCVIGYSGDRCQTRDLRWW ELR with polyhistidine tag at the C-terminus |
| Endotoxin level | <0.1 EU per 1 µg of the protein by the LAL method. |
| Activity | Measure by its ability to induce 3T3 cells proliferation. The ED ₅₀ for this effect is <80 pg/mL. The specific activity of recombinant mouse EGF is approximately >1x 10 ⁷ IU/mg. |
| Purity | >98% as determined by SDS-PAGE. |
| Form | Lyophilized |
| Storage Buffer | Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0. |
| Reconstitution | It is recommended to reconstitute the lyophilized protein in sterile H ₂ O to a concentration not less than 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved. |
| Stability & Storage | This product is stable after storage at: <ul style="list-style-type: none"> -20°C for 12 months in lyophilized state from date of receipt. -20°C or -80°C for 1 month under sterile conditions after reconstitution. Avoid repeated freeze/thaw cycles. |



SDS-PAGE analysis of recombinant mouse EGF

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