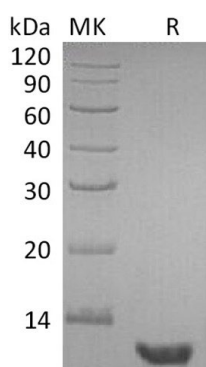


**GRF33687 Recombinant Human EGF Protein****Size:** 500 ug**Description**

|                      |                                                                                                                                                                                                              |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>       | Human                                                                                                                                                                                                        |
| <b>Source</b>        | E.coli-derived Human EGF protein Asn971-Arg1023, with an C-terminal His                                                                                                                                      |
| <b>Calculated MW</b> | 7.2 kDa                                                                                                                                                                                                      |
| <b>Observed MW</b>   | 9-11 kDa                                                                                                                                                                                                     |
| <b>Accession</b>     | P01133                                                                                                                                                                                                       |
| <b>Bio-activity</b>  | Measure by its ability to induce 3T3 cells proliferation. The ED <sub>50</sub> for this effect is < 1.0 ng/mL. The specific activity of recombinant human EGF is approximately >1.0 x 10 <sup>6</sup> IU/mg. |

**Properties**

|                       |                                                                                                                                                                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                            |
| <b>Endotoxin</b>      | < 0.1 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                       |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                       |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.                                                                |
| <b>Reconstitution</b> | Please refer to the specific buffer information in the printed manual.<br>Please refer to the printed manual for detailed information.                                                                                                |

**Data**

&gt; 95 % as determined by reducing SDS-PAGE.

**Background**

Epidermal growth factor (EGF) is a small 53 amino acid residue long protein that contains three disulfide bridges. It is a small mitogenic protein that is thought to be involved in mechanisms such as normal cell growth, oncogenesis, and wound healing. EGF stimulates the growth of various epidermal and epithelial tissues in vivo and in vitro and of some fibroblasts in cell culture. This protein shows both strong sequential and functional homology with human type-alpha transforming growth factor (hTGF alpha), which is a competitor for EGF receptor sites.

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

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Web-site: [www.immunologicalsciences.com](http://www.immunologicalsciences.com) - E-Mail: [info@immunologicalsciences.com](mailto:info@immunologicalsciences.com)