

# CHAMOT

**Recombinant EGF, Human, GMP**

**CM120-100HPG**

**CM120-1000HPG**



**CHAMOT**

乔默®生物

*Specialize In Cytokines*



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## Recombinant EGF, Human, GMP

|          |              |               |
|----------|--------------|---------------|
| Catalog# | CM120-100HPG | CM120-1000HPG |
| Size     | 100 ug       | 1 mg          |

### Product Specifications

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Background</b>        | Human epidermal growth factor (EGF) is a 6 kDa cytokine with 53 amino acid residues. EGF is mainly secreted from ectodermal cells, monocytes, kidney and duodenal glands. Upon binding to its receptor, EGFR, EGF acts to stimulate cell growth and proliferation of epithelial cells, play important roles in many developmental processes including accelerate tooth eruption, inhibits gastric acid secretion, and involve in wound healing. |
| <b>Synonyms</b>          | epidermal growth factor, Urogastrone, URG                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Uniprot ID</b>        | P01133                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Weight</b>  | The protein has a calculated MW of 7.16 kDa. The protein migrates as 9-11 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                                                                                                                     |
| <b>Expression System</b> | Escherichia coli                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>            | >97% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>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.                                                                                                                                                                                                                                     |
| <b>Endotoxin Level</b>   | <0.05 EU per 1 µg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Sequence</b>  | MNSDSECPLSHDGYCLHDGVCMYIEALDKYACNCVVG YIGERCQYRDLKWWELR with polyhistidine tag at the C-terminus                                                                                                                                                                                                                                                                                                                                                |
| <b>Form</b>              | Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Application</b>       | Cell Culture                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### Product Note

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H<sub>2</sub>O to a concentration not less than 0.5 mg/mL and incubate the stock solution at RT for at least 20 min to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.

### Storage/Shipping

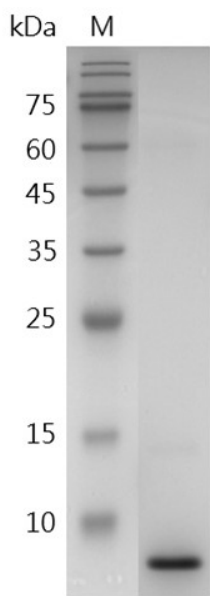
**Stability & Storage**

Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.

**Shipping**

Blue Ice

### Scientific Data



SDS- PAGE analysis of GMP human EGF

For Research Use or Further Manufacturing Only

Chamot Biotechnology(Shanghai) Co., Ltd. [www.chamot-bio.com](http://www.chamot-bio.com)

