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## TECHNICAL INFORMATION

Catalog Number: 153481, 153508, 154571

**Epidermal Growth Factor, human, recombinant**

**Molecular Weight:** Human EGF is a 6.2 kDa protein containing 53 amino acid residues.

**CAS #:** 62229-50-9

**Synonym:** EGF

**Physical Description:** White to off white powder

**Source:** *E.coli*

**Purity:** Greater than 98% by SDS-PAGE and HPLC analyses. Endotoxin level is less than 0.1 ng per mg (1EU/mg).

**Formulation:** Sterile filtered and then the protein was lyophilized with no additives.

**Reconstitution:** The lyophilized EGF is soluble in water and most aqueous buffers. The lyophilized protein should be reconstituted in water to a concentration of 1 mg/ml. This solution can be diluted into other buffered solutions or stored at -20°C for future use. For most *in vitro* applications, EGF exerts its biological activity in the concentration range of 0.5 to 25.0 ng/ml.

**Stability:** The lyophilized EGF, though stable at room temperature, is best stored desiccated below -20°C. Reconstituted EGF should be stored in working aliquots at -20°C.

**Biological Activity:** Human EGF is fully biologically active when compared to standards. The ED<sub>50</sub> as determined by the dose-dependent stimulation of thymidine uptake by BALB/c 3T3 cells is ≤0.1ng/ml, corresponding to a specific activity of ≥1 x 10<sup>7</sup> units/mg.

**Description:** Epidermal Growth Factor (EGF) is a polypeptide growth factor which stimulates the proliferation of a wide range of epidermal and epithelial cells.

**Availability:**

Catalog Number	Description	Size
153508	EGF, Purity not less than 95%	100 ug
154571	EGF, Purity not less than 98%	100 ug
153481	EGF, Purity not less than 98%, carrier-free	500 ug

### References:

- Smith, K., et. al., *Nucl. Acids Res.*, **v. 10**, 4467 (1982)
- Lax, I., et. al., *Prolec and Cell Biol.*, **v. 8**, 1970 (1988)