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EGF, Human Recombinant

Catalog No.	CRE009A	**Quantity:**	100 µg
	CRE009B		0.5 mg
	CRE009C		1.0 mg

Description: Recombinant Human Epidermal Growth Factor produced in Pichia Pastoris is a single, glycosylated, polypeptide chain containing 51 amino acids.

Source: Pichia Pastoris

Molecular Weight: 6 kDa

Formulation: Sterile filtered and then lyophilized. Each lyophilized mg contains contains 0.15 M NaCl + 0.025M sodium bicarbonate, pH 7.5.

Purity: >95.0% as determined by RP-HPLC and SDS-PAGE analyses.

Endotoxin Level: <0.1 ng/µg of protein.

Biological Activity: The ED_{50}, calculated by the dose-dependant proliferation of mouse BALB/c 3T3 cells (measured by 3H-thymidine uptake) is < 0.1 ng/ml corresponding to a specific activity of 1×10^7 Units/mg.

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Amino Acid Sequence: The sequence of the first five N-terminal amino acids is Asn-Ser-Asp-Ser-Glu, which agrees with the sequence of native EGF human. N-terminal methionine has been completely removed enzymatically.

Reconstitution: **Centrifuge vial prior to opening**. First add sterile water to the vial to fully solubilize the protein to a concentration not less than 100 µg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.

Storage & Stability: Lyophilized protein is stable at room temperature for 3 weeks, but it is recommended to store the lyophilized product desiccated at -20°C to -80°C. Upon reconstitution, protein should be stored at 2-4°C for one week and for future use at -20°C to -80°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles**.

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