

## Recombinant Pig EGF Protein (Asn970-Arg1022), C-His tagged, Animal-free, Carrier-free

**Cat. No.** EGF-200P    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Pig EGF Protein (Asn970-Arg1022) with C-His tag was expressed in E. coli and Animal-free as well as Carrier-free.                                                                                                                                                                                                                              |
| <b>Species</b>          | Pig                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                     |
| <b>ProteinLength</b>    | Asn970-Arg1022                                                                                                                                                                                                                                                                                                                                             |
| <b>Description</b>      | 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>Form</b>             | Lyophilized                                                                                                                                                                                                                                                                                                                                                |
| <b>Molecular Mass</b>   | The protein has a calculated MW of 7.09 kDa.<br>The protein migrates below 11 kDa under reducing condition (SDS-PAGE analysis).                                                                                                                                                                                                                            |
| <b>Endotoxin</b>        | < 0.1 EU/μg of the protein by the LAL method.                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >95% as determined by SDS-PAGE analysis.                                                                                                                                                                                                                                                                                                                   |

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|                       |                                                                                                                                                                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>        | <p>This product is stable after storage at:</p> <p>-20 centigrade for 12 months in lyophilized state from date of receipt.</p> <p>-20 or -80 centigrade for 1 month under sterile conditions after reconstitution.</p> <p>Avoid repeated freeze/thaw cycles.</p> |
| <b>Storage Buffer</b> | Lyophilized from a 0.2 µm filtered solution of PBS, pH 8.0.                                                                                                                                                                                                      |
| <b>Reconstitution</b> | It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> 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.                                          |
| <b>Shipping</b>       | The product is shipped with polar packs. Upon receipt, store it immediately at -20 centigrade or lower for long term storage.                                                                                                                                    |

## GENE INFORMATION

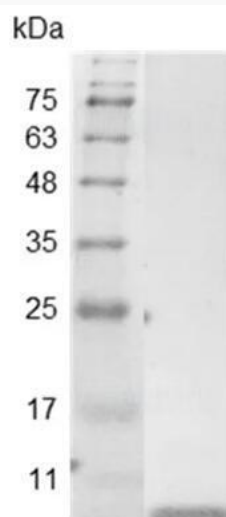
|                        |                                                            |
|------------------------|------------------------------------------------------------|
| <b>Gene Name</b>       | EGF epidermal growth factor [ <i>Sus scrofa</i> ]          |
| <b>Official Symbol</b> | EGF                                                        |
| <b>Synonyms</b>        | EGF; epidermal growth factor; pro-epidermal growth factor; |
| <b>Gene ID</b>         | 397083                                                     |
| <b>mRNA Refseq</b>     | NM_214020                                                  |
| <b>Protein Refseq</b>  | NP_999185                                                  |
| <b>UniProt ID</b>      | Q00968                                                     |

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**SDS-PAGE analysis  
of recombinant  
swine EGF.**



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