

## Growth Hormone Porcine Recombinant

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| <b>Item Number</b>                       | rAP-2280  |
| <b>Synonyms</b>                          | GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin, pST.   |
| <b>Description</b>                       | Porcine-Somatotropin Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 190 amino acids and having a molecular mass of 21730 Dalton. Growth Hormone is purified by proprietary chromatographic techniques.  |
| <b>Uniprot Accesion Number</b>           | P01248  |
| <b>Amino Acid Sequence</b>               | The sequence of the first five N-terminal amino acids was determined and was found to be Phe-Pro-Ala-Met-Pro.   |
| <b>Source</b>                            | Escherichia Coli.   |
| <b>Physical Appearance and Stability</b> | Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Somatotropin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |
| <b>Formulation and Purity</b>            | The Growth-hormone (1 mg/ml) was lyophilized after extensive dialyses against 0.34 mg sodium phosphate buffer (0.02 mg sodium phosphate monobasic & 0.32 mg sodium phosphate dibasic). Greater than 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.  |
| <b>Application</b>                       |   |
| <b>Solubility</b>                        | It is recommended to reconstitute the lyophilized pST in sterile 18MΩ-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.   |
| <b>Biological Activity</b>               | Somatotropin contains 3 units/mg.   |
| <b>Shipping Format and Condition</b>     | Lyophilized powder at room temperature.   |

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**