

Growth Hormone Pituitary 20kDa Human Recombinant

Item Number	rAP-2271
Synonyms	GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin.
Description	Growth Hormone 20KDa Pituitary Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 177 amino acids and having a molecular mass of 20322 Dalton. HGH-20kDa is purified by proprietary chromatographic techniques.
Uniprot Accession Number	P01241
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Phe-Pro-Thr-Ile.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Pituitary Growth Hormone-20K although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution and filter sterilization GH-20K can be stored at 4°C for up to 4 weeks. For long term storage and more diluted solutions it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw
Formulation and Purity	HGH-20K was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO ₃ previously adjusted pH 10. Greater than 98.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized Growth Hormone Pituitary in 0.4% NaHCO ₃ adjusted to pH 10, not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	
Shipping Format and Condition	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**