

## Growth Hormone Human Recombinant, Plant

<b>Item Number</b>	rAP-2263
<b>Synonyms</b>	GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin.
<b>Description</b>	GH human Recombinant produced in Nicotiana benthamiana plant is a single chain containing 205 amino acids (molecular formula C <sub>1025</sub> H <sub>1570</sub> N <sub>280</sub> O <sub>306</sub> S <sub>7</sub> ) and 6-His-tag at the N-terminal having the total molecular mass of 22.9kDa.
<b>Uniprot Accession Number</b>	P01241
<b>Amino Acid Sequence</b>	HHHHHHFPTI PLSRPFDNAM LRAHRLHQLA FDTYQEFEEA YIPKEQKYSF LQNPQTSLCF SESIPTP-SNR EETQQKSNLE LLRISLLLIQ SWLEPVQFLR SVFANSLVYG ASDSNVYDLL KDLEEGIQTL MGRLEDGSPR TGQIFKQTYS KFDTNSHNDD ALLKNYGLLY CFRKDMDKVE TFLRIVQCRS VEGSCG-FAG
<b>Source</b>	Nicotiana benthamiana plant
<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 GH 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>	Lyophilized from 1mg/ml solution in PBS 0.05M buffer at pH 7.5. Greater than 97.0% as determined by Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized GH in sterile 18M-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>	The biological activity of human Growth Hormone is measured by cell proliferation using Nb2-11 cells. ED <sub>50</sub> : 0.04-0.1 ng/mL.
<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**