

GH2

Recombinant Human Growth Hormone 2 Placental

Catalog No.	CRP012A CRP012B CRP012C	Quantity:	10 µg 50 µg 1.0 mg
Alternate Names:	Growth hormone variant, Placental-specific Growth Hormone, GH-V, GHL, GHV, hGH-V, PGH		
Description:	<p>Growth Hormone 2 (GH2), or placental growth hormone (PGH), is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. Like its pituitary counterpart, Growth Hormone 1, the predominant isoform of Growth Hormone 2 shows similar high somatogenic and reduced lactogenic activities. GH2 is secreted by the placenta, which increases the levels of GH2 in maternal circulation such that it gradually replaces pituitary derived GH1. Secretion of GH2 appears to be important in the control of maternal IGF1 levels.</p> <p>Recombinant GH2 is a single, non-glycosylated, polypeptide chain containing 192 amino acids and having a molecular mass of 22.4 kDa. Predicted pI=7.80.</p>		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Protein Content:	Protein quantitation was carried out by 1) UV spectroscopy at 280 nm using the absorbency value of 1.18 as the extinction coefficient for a 0.1% (1 mg/ml) solution (this value is calculated by the PC GENE computer analysis program of protein sequences) and 2) analysis by RP-HPLC using a calibrated solution of GH2 as a Reference Standard.		
Gene ID:	2689		
Source:	<i>E. coli</i>		
Molecular Mass:	22.4 kDa		
Formulation:	The protein was lyophilized from a concentrated (1 mg/ml) solution of 0.0045 mM NaHCO ₃ previously adjusted to pH 8-9.		
Purity:	Greater than 98.0% as determined by SEC-HPLC and SDS-PAGE analyses.		
Purification:	Purified by proprietary chromatographic techniques.		
Amino Acid Sequence:	The first five N-terminal amino acids are Ala-Phe-Pro-Thr-Ile.		
Reconstitution:	Centrifuge vial prior to opening. Reconstitute the lyophilized protein in 0.4% NaHCO ₃ or water adjusted to pH 9 at not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.		
Storage & Stability:	Although lyophilized GH2 is stable at room temperature for short periods of time, it should be stored desiccated below -20°C. Upon reconstitution and filter sterilization, the protein can be stored at 2-4°C for 4 weeks. For long term storage and more diluted solutions, it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid repeated freeze-thaw cycles.		

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