

GH1

Recombinant Chicken Growth Hormone

Catalog No.	CRG117A CRG117B CRG117C	Quantity:	20 µg 100 µg 1.0 mg
Alternate Names:	GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin.		
Description:	GH is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature.		
GeneID:	378781		
Source:	<i>E. coli</i>		
Molecular Mass:	22255 Dalton		
Formulation:	The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.3% NaHCO ₃ adjusted to pH 8.		
Purity:	Greater than 99.0% as determined by: (a) Analysis by SDS-PAGE gel. (b) Analysis by SEC-HPLC.		
Solubility:	It is recommended to reconstitute the lyophilized GH Chicken Recombinant in sterile water or 0.4% NaHCO ₃ adjusted to pH 8-9, not less than 100µg/ml and not more than 3 mg/ml, which can then be further diluted to other aqueous solutions, preferably in presence of carrier protein.		
Purification:	GH Chicken recombinant is purified by proprietary chromatographic techniques.		
Biological Activity:	GH Chicken Recombinant is fully biologically active in homologous assays and in PDF-P1 3B9 cells stably transfected with rabbit GH receptors.		
Protein Content:	Protein quantitation was carried out by two independent methods 1. UV spectroscopy at 280 nm using the absorbency value of 0.75 as the extinction coefficient for a 0.1% (1mg/ml) solution at pH 8.0 This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics).		

2. Analysis by RP-HPLC, using a calibrated solution of GH as a Reference Standard.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Phe-Pro-Ala.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Storage & Stability: Lyophilized GH Chicken although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution at > 0.1 mg/ml and filter sterilization GH can be stored at 4°C for several weeks. At lower concentration addition of a carrier protein (0.1% HSA or BSA) is recommended.

Please prevent freeze-thaw cycles.

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

