9051 Mira Mesa Blvd, #910094
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GH Chicken

GH Chicken Recombinant
GRF0119

Product Overview

Name	GH Chicken
Description	
GH Chicken Recombinant	
Accession (Primary)	P08998
Synonyms	
GH1, GH, GHN, GH-N, hGH-N,Pituitary GH, GH 1,	
Introduction	
GH is a member of the prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the GH 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 GHs, 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 GH locus. Mutations in or deletions of the gene lead to GH deficiency and short stature.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution with 0.3% NaHCO3 adjusted to pH 8.	
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.	
Purity	
Greater than 99.0% as determined by: (a) Analysis by SDS-PAGE gel. (b) Analysis by SEC-HPLC.	
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.	

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Biological Activity

GH Chicken Recombinantis fully biologically active in homologous assays and in PDF-P1 3B9 cells stably transfected with rabbit GH receptors.

Solubility

It is recommended to reconstitute the lyophilized GH Chicken Recombinant in sterile water or 0.4% NaHCO3 adjusted to pH 8-9, not less than 100 µg/ml and not more than 3 mg/ml, which can then be further diluted to other aqueous solutions, preferably in presence of carrier protein.

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.

Precautions

GH Chicken is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P08998)