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32-1265: chGH Recombinant Protein

Alternative Name : GH1,GH,GHN,GH-N,hGH-N,Pituitary growth hormone,Growth hormone 1,Somatotropin.

Description

Source : Escherichia Coli. Growth Hormone Chicken Recombinant (cGH) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 191 amino acids with an additional Ala at its N-terminus and having a molecular mass of 22255 Dalton. GH Chicken recombinant is purified by proprietary chromatographic techniques. 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.

Product Info

Amount :	100 µg
Purification :	Greater than 99.0% as determined by:(a) Analysis by SDS-PAGE gel.(b) Analysis by SEC-HPLC.
Content :	The protein was lyophilized from a concentrated (1mg/ml) solution with 0.3% NaHCO3 adjusted to pH 8.
Storage condition :	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.
Amino Acid :	The sequence of the first five N-terminal amino acids was determined and was found to be Ala-Thr-Phe-Pro-Ala.

Application Note

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

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