9051 Mira Mesa Blvd, #910094
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GH Ovine

Growth Hormone Ovine Recombinant
GRF0126

Product Overview

Name	GH Ovine
Description	
Growth Hormone Ovine Recombinant	
Accession (Primary)	P67930
Synonyms	
GH1, GH, GHN, GH-N, hGH-N,Pituitary growth hormone, Growth hormone 1, Somatotropin.	
Introduction	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The protein was lyophilized from a concentrated (1mg/ml) solution with 0.0045mM NaHCO3.	
Stability	
Lyophilized Growth Hormone although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH Ovine 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.	
Purity	
Greater than 98.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.	
Amino acid sequence	

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1 afpamslsgl fanavlraqh lhqlaadtfk efertyipeg qrysiqntqv 51 afcfsetipa ptgkneaqqk sdlellrisl lliqswlgpl qflsrvftns 101 lvfgtsdrvy eklkdleegi lalmreledv tpragqilkq tydkfdtnmr 151 sddallknyg llscfrkdlh ktetylrvmk crrfgeasca f

Biological Activity

The activity as determined by the dose-dependant stimulation of the proliferation FDCP13B9 cells.

Solubility

It is recommended to reconstitute the lyophilized Growth Hormone in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Protein content

Protein quantitation was carried out by two independent methods 1. UV spectroscopy at 280 nm using the absorbency value of 0.7 as the extinction coefficient for a 0.1% (1mg/ml) solution. 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 Ovine is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P67930)