9051 Mira Mesa Blvd, #910094
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GH Human, Plant

Growth Hormone Human Recombinant, Plant
GRF0124

Product Overview

Name	GH Human, Plant
Description	
Growth Hormone Human Recombinant, Plant	
Accession (Primary)	P01241
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	
Nicotiana benthamiana plant	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
Lyophilized from 1mg/ml solution in PBS 0.05M buffer at pH 7.5.	
Stability	
Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH 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 97.0% as determined by Analysis by SDS-PAGE.	
Amino acid sequence	

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HHHHHHFPTI PLSRPFDNAM LRAHRLHQLA FDTYQEFEEA YIPKEQKYSF LQNPQTSLCF SESIPTPSNR EETQQKSNLE LLRISLLLIQ SWLEPVQFLR SVFANSLVYG ASDSNVYDLL KDLEEGIQTL MGRLEDGSPR TGQIFKQTYS KFDTNSHNDD ALLKNYGLLY CFRKDMDKVE TFLRIVQCRS VEGSCGFAG

Biological Activity

The biological activity of human Growth Hormone is measured by cell proliferation using Nb2-11 cells. ED50 < 0.04-0.1 ng/mL.

Solubility

It is recommended to reconstitute the lyophilized GH in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

GH Human, Plant is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P01241)