

Recombinant Denis Growth Hormone

Cat. No. GH-32D Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Denis Growth Hormone produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 190 amino acids and having a molecular mass of 21810 Dalton. GH is purified by proprietary chromatographic techniques.

Species Denis

Source E.coli

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.

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

Purity Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Formulation The protein was lyophilized from a concentrated (1 mg/ml) solution with 0.0045 mM NaHCO₃.

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

Stability Lyophilized Growth Hormone Denis although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution GH Denis 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.

GENE INFORMATION

Synonyms GH1; GH; GHN; GH-N; GHN; hGH-N; GH2; GH-V; GHL; GHV; hGH-V; GH; Growth hormone; Pituitary growth hormone; growth hormone 1; growth hormone 2; Placenta-specific growth hormone; Somatotropin

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