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32-1276: pGH Recombinant Protein

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

Description

Source : Escherichia Coli. Porcine-Somatotropin Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 190 amino acids and having a molecular mass of 21730 Dalton. Growth Hormone 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 :	0.5mg
Purification :	Greater than 98.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Content :	The Growth-hormone (1 mg/ml) was lyophilized after extensive dialyses against 0.34 mg sodium phosphate buffer (0.02 mg sodium phosphate monobasic & 0.32 mg sodium phosphate dibasic).
Storage condition :	Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Somatotropin 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.
Amino Acid :	The sequence of the first five N-terminal amino acids was determined and was found to be Phe-Pro-Ala-Met-Pro.

Application Note

It is recommended to reconstitute the lyophilized pST in sterile 18MÃ□Â©-cm H2O not less than 100Ã□Âµg/ml, which can then be further diluted to other aqueous solutions. Somatotropin contains 3 units/mg.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.