

Recombinant human Growth Hormone



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CAT No. G001 - 1.0 mg

LOT No. A0006

product specification sheet: PS-G001

Product description

Human growth hormone is a plasma protein with a calculated molecular weight of 22.1 kDa. The protein is a member of the somatotropin/prolactin family of hormones, which play an important role in growth control. Its 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. This protein is the product of all five exons.

Reference sequences: NM_000515
NP_000506
Swiss-prot P01241

Alternative names: Somatotropin
Pituitary growth hormone
growth hormone 1

Gene ID: 2688

The gene of human growth hormone was cloned, the protein was over-expressed in HEK293EBNA1 cells and was purified to homogeneity. The calculated molecular weight is 23.1 kDa and it contains an C-terminal hexahistidine tag. Each vial contains 1.0 mg human growth hormone.

Storage and stability

Human growth hormone should be stored at - 80 °C (stable for at least 1 year). The buffer contains PBS without preservative. After thawing it should be stored in appropriate small aliquots at - 20 °C or - 80 °C (stable for at least 12 months).

Sequence

matgsrslfllafgllclpwlqegsafptiplsrifdnamlrahrlhq
lafdyqefeeayipkeqkys"qnpqtslcfesiptpsnreetq
qksnellrlisllliqswlepvt"rsvfanslvygadsnvdyllkdl
eegiqlmngredgsprtggqifkqtyskfdtshnddallknygl
lycfrkdmdkvet"rivqcrsvsegscfgsaahhhhhh

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