

ABGENEX Pvt. Ltd., E-5, Infocity, KIIT Post Office, Tel: +91-674-2720712, +91-9437550560 Email: info@abgenex.com Bhubaneswar, Odisha - 751024, INDIA

32-1256: GH Recombinant Protein

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

Description

Source: Escherichia Coli. GH Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 191 amino acids and having a molecular mass of 22kDa. 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.

GH protein lyophilized from a 0.2µm filtered concentrated solution with 20mM PB, pH 7.0 and 3% Content:

Mannitol.

Lyophilized GH although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HGH should be stored at 4°C between 2-7 days and for future Storage condition:

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.

FPTIPLSRLF DNAMLRAHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT SLCFSESIPT **Amino Acid:**

> PSNREETQQK SNLELLRISL LLIQSWLEPV QFLRSVFANS LVYGASDSNV YDLLKDLEEG IQTLMGRLED GSPRTGQIFK QTYSKFDTNS HNDDALLKNY GLLYCFRKDM DKVETFLRIV

QCRSVEGSCG F.

Application Note

It is recommended to reconstitute the lyophilized HGH in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. The ED50 was determined by the proliferation assay of rat lymphoma NB2-11 cells and was found to be less than 0.1ng/ml, corresponding to a specific activity of > 1.0 × 107 IU/mg.

