

AR50001PU-S

Human Somatotropin / Growth Hormone / GH1 (recombinant) - Purified

Alternate names: Growth hormone 1, HGH, Pituitary growth hormone

Quantity: 0.1 mg

Concentration: 1 mg/ml (determined by Bradford assay)

Background: Human growth hormone(hGH, somatotropin), a protein hormone from the anterior lobe of the pituitary gland, comprises a single polypeptide chain of 191 amino acid residues. The growth hormone amino acid sequence varies considerably between species, and non-primate growth hormones have little activity in man. Its main function is the stimulation of somatic and bone growth, as well as an increase in the size and mass of organs and tissues.

Uniprot ID: [P01241](#)

NCBI: [NP_000506](#)

GeneID: [2688](#)

Species: Human

Source: E. coli

Format: **State:** Liquid purified protein

Purity: >95% by SDS - PAGE

Buffer System: 88 mM mannitol, 5mM phosphate, pH7.4

Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Description: Recombinant human growth hormone(rhGH) was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.

AA Sequence:

MFPTIPLSRL FDNAMLRAHR LHQLAFDTYQ EFEEAYIPKE QKYSFLQNPQ TSLCFSESIP
TPSNREETQQ KSNLELLRIS LLLIQSWLEP VQFLRSVFAN SLVYGASDSN VYDLLKDLLE
GIQTLMGRL E DGSPTGQIF KQTYSKFDTN SHNDALLKN YGLLYCFERKD MDKVETFLRI
VQCRSVEGSC GF

Specific Activity: The proliferative activity of rhGH was tested in culture using rat Nb2 Lymphoma cells

Molecular weight: 22.2 kDa (192 aa), confirmed by MALDI-TOF.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings: Wickens., et al.(1978) J. Biol Chem. 253(7):2483-2495Goeddel. et al.(1979) Proc. Natl. Acad. Sci. 76:106-110Chang, et al. (1978) Nature 275:617-624 Ullrich. et al. (1977) Science 196:1313-1319.

Pictures:

