

Technical Data Sheet



Human Growth hormone

General Information

Other Name: GH Protein, Human; GH-N Protein, Human; GH1 Protein, Human; GHB5 Protein, Human; GHN Protein, Human; Growth hormone 1 Protein, Human; hGH-N Protein, Human; IGHD1B Protein, Human, Somatotropin

CAS: 12629-01-5 ; 82030-87-3

Catalog Number: A02S

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

Mol. Wt.: 22.1 kDa

Resources: *Escherichia coli* (*E. coli*)

Species: human

Purity: $\geq 95\%$

Endotoxin: < 1.0 EU/ μ g protein

Biological Activity: Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using rat Nb2-11 lymphoma cells is less than 0.1 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^7$ IU/mg.

Application: research, laboratory or further evaluation purposes.

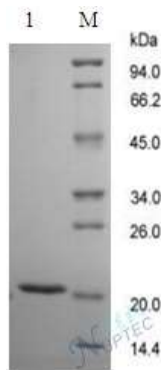
NOT FOR HUMAN USE.

Product is stable for up to three years from date of receipt at -20°C to -80°C .

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Description

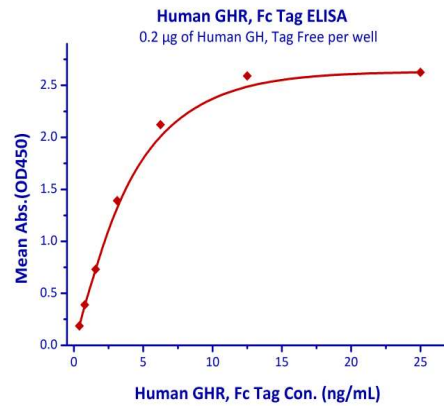
Human growth hormone (hGH) is a 191 amino acid non-glycosylated protein hormone secreted by the anterior pituitary gland in brain. It is one of the most important postnatal hormones. HGH plays an important role in cell proliferation, bone formation, muscle strength, organogenesis and somatic growth because its principal physiological functions are the stimulation on the rate of protein synthesis and the mobilization and utilization of fatty acids, and decline on the rate of carbohydrate utilization. Recombinant human growth hormone (rh-GH) has been approved by US FDA as prescription medicine to treat children's growth disorders, severely burns, wound, bone fracture and osteoporosis.



1:rh-GH

M: Protein marker standard

Figure 1: Analysis of rh-GH by SDS-PAGE



Research use only or for further manufacturing