

## Recombinant Human Growth Hormone

Catalog No: #AP60390



Package Size: #AP60390-1 100ug #AP60390-2 500ug #AP60390-3 1mg

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

## Description

Product Name	Recombinant Human Growth Hormone
Host Species	Escherichia coli
Purification	> 96 % by SDS-PAGE and HPLC analyses.
Calculated MW	Approximately 22 kDa, a single non-glycosylated polypeptide chain containing 191 amino acids.
Target Sequence	FPTIPLSRLF DNAMLRAHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT SLCFSESIPT PSNREETQQK SNLELLRISL LLIQSWLEPV QFLRSVFANS LVYGASDSNV YDLLKDLEEG IQTLMGRLED GSPRTGQIFK QTYSKFDTNS HNDDALLKNY GLLYCFRKDM DKVETFLRIV QCRSVEGSCG F
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.0, containing 3 % Mannitol, 0.02 % Tween-20.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.- 12 months from date of receipt, -20 to -70 °C as supplied.- 1 month, 2 to 8 °C under sterile conditions after reconstitution.- 3 months, -20 to -70 °C under sterile conditions after reconstitution.

## Background

Growth hormone (GH), also known as somatotropin, is a member of a family of growth factors that includes prolactin, placental lactogens, proliferins, and somatolactin. It is a peptide hormone that stimulates growth, cell reproduction and regeneration in humans and other animals. Growth hormone is a 191-amino acid, single-chain polypeptide that is synthesized, stored, and secreted by somatotropic cells within the lateral wings of the anterior pituitary gland. The pulsatile release of GH into circulation is regulated by the concerted actions of the hypothalamic hormones-GH-releasing hormone (GHRH) and somatostatin (SST) as well as by signals from the periphery-ghrelin and leptin. The human GH cDNA encodes a 217 amino acid (a.a.) residue precursor protein with a 26 a.a. putative signal peptide. By alternative splicing, at least four isoforms of GH have been identified.

Note: This product is for in vitro research use only