

Recombinant Rat Growth Hormone 1

Cat. No. Gh1-372R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Gh1 produced in E. coli is a single, non-glycosylated, polypeptide chain containing 190 amino acids and having aMW 21.81 kDa.
Species	Rat
Source	E.coli
Description	A polypeptide that is secreted by the adenohypophysis. Gh1, also known as somatotropin, stimulates mitosis, cell differentiation and cell growth. Species-specific Gh1 have been synthesized. GH1 augments the cytolytic activity of T-cells, antibody synthesis, and granulocyte differentiation induced by GM-CSF. GH1 also enhances production of TNF-alpha, generation of superoxide anions from peritoneal macrophages, and natural killer activity.
Form	Rat Gh1 (1 mg/ml) was lyophilized after extensive dialyses against 5 mM phosphate buffer + 5 mg mannitol + 1 mg glycine.
Purity	Greater than 97.0% as determined by analysis by RP-HPLC and by analysis by SDS-PAGE.
Reconstitution	It is recommended to reconstitute the lyophilized Gh1 Rat in sterile 18MΩ-cm H ₂ O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids is Met-Phe-Pro-Thr-Ile.

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Storage Lyophilized Growth Hormone Rat although stable at room temperature for 3 weeks, should be stored desiccated below -20°C. Upon reconstitution Gh1 Rat should be stored at 2-4°C between 2-7 days and for future use below -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

Official Symbol Gh1

GENE INFORMATION

Gene Name Gh1 growth hormone 1 [*Rattus norvegicus*]

Synonyms Gh1; growth hormone 1; Gh; RNGHGP; somatotropin

Gene ID 24391

mRNA Refseq NM_001034848

Protein Refseq NP_001030020

UniProt ID P01244

Chromosome Location 10q32

Pathway Adipogenesis; Diabetes pathways; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction; Synthesis, Secretion, and Deacylation of Ghrelin

Function growth factor activity; growth hormone receptor binding; hormone activity; metal ion binding; prolactin receptor binding

Growth hormone.

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