

Recombinant Rat Growth Hormone

Cat. No. Gh1-163R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat Growth Hormone is protein that stimulates growth in rats. Growth hormone affects a wide variety of tissues, both by promoting growth directly but also indirectly by stimulating the production of other growth factors, notably the Insulin-like Growth Factors (IGFs) which circulate in the blood after GH stimulates their production in the liver and locally in other tissues. MW=21.94 kDa.
Species	Rat
Source	E.coli
Description	Growth hormone (GH) is a protein-based poly-peptide hormone. It stimulates growth and cell reproduction and regeneration in humans and other animals. It is a 191-amino acid, single-chain polypeptide hormone that is synthesized, stored, and secreted by the somatotroph cells within the lateral wings of the anterior pituitary gland.
Physical Appearance	Lyophilized white powder under nitrogen at a slight vacuum (-25kPa) from 5 mM sodium phosphate buffer pH 8.5, containing m-rGH/ mannitol/ glycine (1:5:1 w/w).
Purity	97% monomer (by Gel Filtration Chromatography).
Endotoxin	< 0.1 EU/g.
Stability	At least 2 years at 2 - 4°C (lyophilized).

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GENE INFORMATION

Gene Name	Gh1 growth hormone 1 [Rattus norvegicus]
Synonyms	Gh1; growth hormone 1; Gh; RNGHGP
Gene ID	24391
mRNA Refseq	NM_001034848
Protein Refseq	NP_001030020
UniProt ID	P01244
Chromosome Location	10q32
Pathway	Cytokine-cytokine receptor interaction; Jak-STAT signaling pathway; Neuroactive ligand-receptor interaction
Function	growth factor activity; growth hormone activity; growth hormone receptor binding; hormone activity; prolactin receptor binding; protein binding

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