

## GH1

### Recombinant Rat Growth Hormone

<b>Catalog No.</b>	CRH206A CRH206B CRH206C	<b>Quantity:</b>	100 µg 200 µg 1.0 mg
<b>Alternate Names:</b>	GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1, Somatotropin.		
<b>Description:</b>	<p>GH is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature.</p> <p>Growth Hormone Rat Recombinant produced in <i>E. coli</i> is a single, non-glycosylated, polypeptide chain containing 190 amino acids and having a molecular mass of 21810 Dalton.</p>		
<b>GeneID:</b>	24391		
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Mass:</b>	21810 Dalton		
<b>Formulation:</b>	The protein (1 mg/ml) was lyophilized after extensive dialyses against 5 mM phosphate buffer + 5 mg mannitol and 1 mg glycine.		
<b>Purity:</b>	Greater than 97.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.		
<b>Solubility:</b>	It is recommended to reconstitute the lyophilized Growth Hormone Rat in sterile 18 MΩ-cm H <sub>2</sub> O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions		
<b>Purification:</b>	GH is purified by proprietary chromatographic techniques.		
<b>Storage &amp; Stability:</b>	Lyophilized Growth Hormone Rat although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Rat Growth Hormone should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). <b>Please prevent freeze-thaw cycles.</b>		

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