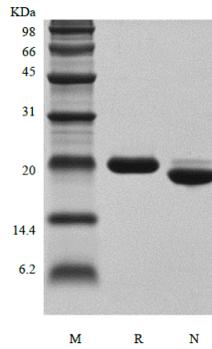


## GH1

### Recombinant Human Growth Hormone

<b>Catalog No.</b>	CRH200A CRH200B CRH200C	<b>Quantity:</b>	100 µg 500 µg 1 mg
<b>Alternate Names:</b>	Somatotropin, Growth Hormone 1, GH		
<b>Description:</b>	<p>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, synthesized primarily by somatotropes in the anterior pituitary and is stored in secretory granules. 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.<sup>4</sup> 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.</p>		
<b>UniProt ID: ID:</b>	P01241		
<b>Source:</b>	Expressed in <i>E. coli</i>		
<b>Molecular Weight:</b>	~22 kDa (191 aa) monomer		
<b>Formulation:</b>	Lyophilized from sterile filtered 20 mM phosphate buffer, pH 7.0 with 3% mannitol		
<b>Purity:</b>	>98.0% by RP-HPLC and SDS-PAGE		
<b>Endotoxin Level:</b>	< 1EU/µg as determined by LAL analysis		
<b>Biological Activity:</b>	ED <sub>50</sub> <0.1 ng/ml, determined by the dose-dependent proliferation of the rat lymphoma cell line NB2-11.		
<b>Specific Activity:</b>	> 1.0 × 10 <sup>7</sup> IU/mg.		
<b>Amino Acid Sequence:</b>	FPTIPLSRLF DNAMLRAHRL HQLAFDTYQE FEEAYIPKEQ KYSFLQNPQT SLCFSESIPT PSNREETQQK SNLELLRISL LLIQSWLEPV QFLRSVFANS LVYGASDSNV YDLLKDLEEG IQTLMGRLED GSPRTGQIFK QTYSKFDTNS HNDDALLKNY GLLYCFRKDM DKVETFLRIV QCRSVEGSCG F		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. <b>Mix gently, do not vortex.</b> Allow time to dissolve completely. Further dilution should be made in appropriate buffered solutions.		
<b>Storage &amp; Stability:</b>	Store unopened vial at -20°C to -80°C for up to 1 year. Upon reconstitution, store the stock solution at 2-8°C for up to 1 month or in aliquots at -20°C to -80°C for up to 3 months. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. <b>Avoid repeated freeze-thaw cycles.</b>		

## SDS-PAGE



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