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Growth Hormone 1 Protein (GH1)



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0.0		
Quantity:	50 μg	
Target:	Growth Hormone 1 (GH1)	
Origin:	Human	
Source:	CHO Cells	
Protein Type:	Recombinant	
Biological Activity:	Active	
Product Details		
Characteristics:	ED50 < 0.5 ng/mL, measured in a cell proliferation assay using Nb2-11 cells, corresponding to a	
	specific activity of >2 x 10^6 units/mg	
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.	
Endotoxin Level:	< 0.2 EU/μg, determined by LAL method.	
Target Details		
Target:	Growth Hormone 1 (GH1)	
Alternative Name:	Growth Hormone (GH1 Products)	
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 synthesized	
	primarily by somatotropes in the anterior pituitary and is stored in secretary 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	

Target Details

	signals from the periphery - ghrelin and leptin. The human GH cDNA encodes a 217 amino ac	
	(aa) residue precursor protein with a 26 aa putative signal peptide. By alternative splicing, at	
	least four isoforms of GH have been identified.	
	Synonyms: GH1, GH, GHN, GH-N, hGH-N, Pituitary growth hormone, Growth hormone 1,	
	Somatotropin	
	20-24 kDa, observed by non-reducing SDS-PAGE.	
Molecular Weight:	20-24 kDa, observed by non-reducing SDS-PAGE.	
Molecular Weight: Pathways:	20-24 kDa, observed by non-reducing SDS-PAGE. NF-kappaB Signaling, JAK-STAT Signaling, Intracellular Steroid Hormone Receptor Signaling	
	NF-kappaB Signaling, JAK-STAT Signaling, Intracellular Steroid Hormone Receptor Signaling	

Application Details

Restrictions:	For Research Use only	
Handling		
Format:	Lyophilized	
Reconstitution:	Reconstituted in ddH2O or PBS at 100 μg/mL.	
Buffer:	Lyophilized after extensive dialysis against PBS.	
Storage:	-80 °C	
Storage Comment:	Lyophilized recombinant Human Growth Hormone (GH) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhGH should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.	
Expiry Date:	6 months	