

GH1

Native Human Growth Hormone, High Purity

Catalog No.	CS072A CS072B	Quantity:	100 µg 1.0 mg
Alternate Names:	GH, Somatotropin, Pituitary growth hormone, Growth Hormone 1		
Description:	Growth hormone is a peptide hormone that stimulates growth, cell reproduction, production of IGF-1 and increases the concentration of glucose and free fatty acids. The major isoform of human growth hormone consists of 191 amino acids with four helices necessary for functional interaction with the GH receptor. In structure, GH is evolutionarily homologous to prolactin and chorionic somatomammotropin, a group of homologous hormones with growth-promoting and lactogenic activity.		
UniProt ID:	P01241		
Gene ID:	2688		
Source:	Human pituitary glands		
Molecular Weight:	approximately 22 kDa		
Formulation:	Lyophilized from 50 mM ammonium bicarbonate		
Purity:	≥ 95 % by SDS-PAGE		
Reconstitution:	Pituitary hormones such as GH are extremely labile in solution. Reconstitute immediately prior to use, at 1.0 mg/ml, in a physiologic solution such as PBS or TBS. Include a carrier protein such as 1% BSA. If your application precludes the use of a carrier protein, reconstitute product at 5 - 10 mg/ml. Avoid extreme high and low pH.		
Storage & Stability:	Store as supplied for up to 1 year at -20°C to -80°C. It is recommended to use the product immediately following reconstitution. If storage is necessary following reconstitution, prepare single-use aliquots and immediately store at -80°C for up to 3 months. Avoid repeated freeze/thaw cycles.		
Certification:	Serum from donors has been tested and found to be negative for HIV-1/HIV-2, Hepatitis B Core Antigen, Hepatitis B Surface Antigen, Hepatitis C Virus and Syphilis by current FDA approved methods. However, because no test method can offer complete assurance that HIV, HBsAg, HCV, Syphilis or other infectious agents are absent, this material should be handled at the Bio-safety Level 2 (BSL 2) as recommended for any potentially infectious human serum or blood specimen in the CDC/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 1999.		

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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com