

GH/Somatotropin Protein, Human

Cat. No.:	HY-P7183
Synonyms:	rHuGH; Somatotropin; GH-N; GH1
Species:	Human
Source:	E. coli
Accession:	P01241 (F27-F217)
Gene ID:	2688
Molecular Weight:	Approximately 19.0 kDa

PROPERTIES

AA Sequence	<pre> F P T I P L S R L F D N A M L R A H R L H Q L A F D T Y Q E F E E A Y I P K E Q K Y S F L Q N P Q T S L C F S E S I P T P S N R E E T Q Q K S N L E L L R I S L L L I Q S W L E P V Q F L R S V F A N S L V Y G A S D S N V Y D L L K D L E E G I Q T L M G R L E D G S P R T G Q I F K Q T Y S K F D T N S H N D D A L L K N Y G L L Y C F R K D M D K V E T F L R I V Q C R S V E G S C G F </pre>
Biological Activity	Data is not available.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<1.0 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>Recombinant Human Growth Hormone is a peptide hormone that stimulates growth, cell reproduction, and cell regeneration, which can be used for the treatment of growth disorders in children^[1]. Growth Hormone is a stress hormone that stimulates production of IGF-1 and raises the concentration of glucose and free fatty acids^[2]. Growth Hormone exerts some of its effects by binding to receptors on target cells, where it activates the MAPK/ERK pathway^[3].</p>
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REFERENCES

[1]. Takeda A, et al. Recombinant human growth hormone for the treatment of growth disorders in children: a systematic review and economic evaluation. Health Technol Assess. 2010 Sep;14(42):1-209, iii-iv.

[2]. Ranabir S, et al. Stress and hormones. Indian J Endocrinol Metab. 2011 Jan;15(1):18-22.

[3]. Binder G, et al. "Noonan Syndrome: Genetics and Responsiveness to Growth Hormone Therapy". Horm Res. 67 (Supplement 1): 45-49.

Caution: Product has not been fully validated for medical applications. For research use only.

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