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Datasheet for ABIN1096798

**Growth Hormone 1 Protein (GH1) (AA 27-216)**

## Overview

Quantity:	50 µg
Target:	Growth Hormone 1 (GH1)
Protein Characteristics:	AA 27-216
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

## Product Details

Purpose:	Recombinant Mouse Growth Hormone/GH
Sequence:	MFPAMPLSSL FSNAVLRAQH LHQLAADTYK EFERAYIPEG QRYSIQNAQA AFCFSETIPA PTGKEEAQQR TDMELLRFSL LLIQSWLGPV QFLSRIFTNS LMFGTSDRVY EKLKDLEEGI QALMQELEDG SPRVGQILKQ TYDKFDANMR SDDALLKNYG LLSCFKKDLH KAETYLVRVMK CRRFVESSCA F
Characteristics:	Recombinant Mouse Growth Hormone/GH is produced with our E. coli expression system. The target protein is expressed with sequence (F27-F216) of Mouse GH.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

## Target Details

Target:	Growth Hormone 1 (GH1)
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## Target Details

Alternative Name:	somatotropin ( <a href="#">GH1 Products</a> )
Background:	<p>Somatotropin(GH) is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. Its major role in stimulating body growth is to stimulate the liver and other tissues to secrete IGF-1. GH stimulates both the differentiation and proliferation of myoblasts. It also stimulates amino acid uptake and protein synthesis in muscle and other tissues.</p> <p>Alternative Names: Somatotropin, Growth Hormone, Gh1, Gh</p>
Molecular Weight:	21.9 kDa
UniProt:	<a href="#">P06880</a>
Pathways:	<a href="#">NF-kappaB Signaling</a> , <a href="#">JAK-STAT Signaling</a> , <a href="#">Intracellular Steroid Hormone Receptor Signaling Pathway</a> , <a href="#">Peptide Hormone Metabolism</a> , <a href="#">Regulation of Intracellular Steroid Hormone Receptor Signaling</a> , <a href="#">Regulation of Hormone Metabolic Process</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Regulation of Hormone Biosynthetic Process</a>

## Application Details

Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Lyophilized from a 0.2 µm filtered solution of 50 mM TrisHCl, 500 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	4 °C/-20 °C/-80 °C
Storage Comment:	<p>Lyophilized protein should be stored at &lt; -20°C, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7°C for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>
Expiry Date:	3 months