

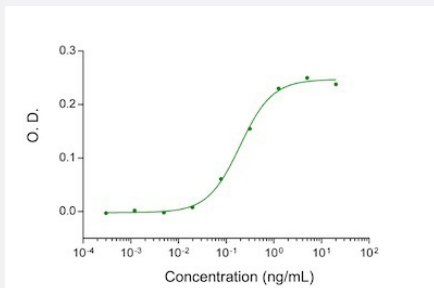
Bioactive

GH1 (Human) Recombinant Protein

Catalog # P7322

Size 10 ug

Applications



Result of activity analysis

Result of activity analysis

Specification

Product Description	Human GH1 (P01241, 27 a.a. - 217 a.a) partial recombinant protein expressed in <i>Escherichia coli</i> .
Sequence	AFPTIPLSRLFDNAMLRAHRLHQLAFD TYQEFEEAYIPKEQKYSFLQNPQTSLCFSES IPTSPSNREE TQQKSNLELLRISLLLIQSWLEPVQFLRSVFANSLVYGASDSNVYDLLKDLEEGIQ TLMGRLEDGS PRTGQIFKQTYSKFDTNSHNDDALLKNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF
Host	Escherichia coli
Theoretical MW (kDa)	22.1
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purity	> 95% as analyzed by SDS-PAGE. > 95% as analyzed by HPLC.
Endotoxin Level	< 0.2 EU/ug of protein by gel clotting method
Activity	ED ₅₀ < 0.5 ng/mL, measured by a cell proliferation assay using Nb2-11 Cells, corresponding to a specific activity of > 2.0 × 10 ⁶ units/mg.

Recommend Usage

Biological Activity
SDS-PAGE
The optimal working dilution should be determined by the end user.

Storage Buffer

Lyophilized from PBS. Reconstitute the lyophilized powder in ddH₂O up to 100 ug/mL.

Storage Instruction

Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C.
Aliquot to avoid repeated freezing and thawing.

Note

Result of activity analysis
Result of activity analysis

Applications

- Functional Study
- SDS-PAGE

Gene Info — GH1

Entrez GeneID

[2688](#)

Protein Accession#

[P01241](#)

Gene Name

GH1

Gene Alias

GH, GH-N, GHN, hGH-N

Gene Description

growth hormone 1

Omim ID

[139250](#) [173100](#) [262400](#) [262650](#) [604271](#)

Gene Ontology

[Hyperlink](#)

Gene Summary

The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones which play an important role in growth control. The gene, along with four other related genes, is located at the growth hormone locus on chromosome 17 where they are interspersed in the same transcriptional orientation; an arrangement which is thought to have evolved by a series of gene duplications. The five genes share a remarkably high degree of sequence identity. Alternative splicing generates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. This particular family member is expressed in the pituitary but not in placental tissue as is the case for the other four genes in the growth hormone locus. Mutations in or deletions of the gene lead to growth hormone deficiency and short stature. [provided by RefSeq

Other Designations

pituitary growth hormone

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Jak-STAT signaling pathway](#)
- [Neuroactive ligand-receptor interaction](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Alzheimer disease](#)
- [Birth Weight](#)
- [Brain Ischemia](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Cardiovascular Diseases](#)
- [Cerebrovascular Accident](#)
- [Colonic Polyps](#)
- [Colorectal Neoplasms](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Dwarfism](#)
- [Edema](#)
- [Esophageal Neoplasms](#)
- [Esophagitis](#)
- [Genetic Predisposition to Disease](#)
- [Growth Disorders](#)

- [Hematologic Diseases](#)
- [Hyperplasia](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Lymphoma](#)
- [Metabolic Syndrome X](#)
- [Metaplasia](#)
- [Neoplasms](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Osteoporosis](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Schizophrenia](#)
- [Scoliosis](#)
- [Stroke](#)
- [Testicular Neoplasms](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)