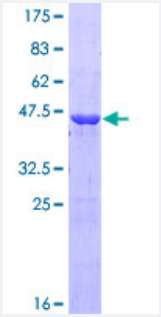
Full-Length

GH2 (Human) Recombinant Protein (P01)

Catalog # H00002689-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human GH2 full-length ORF (AAH20760.1, 27 a.a. - 217 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	FPTIPLSRLFDNAMLRARRLYQLAYDTYQEFEEAYILKEQKYSFLQNPQTSLCFSESIPTPSNRVKT QQKSNLELLRISLLLIQSWLEPVQLLRSVFANSLVYGASDSNVYRHLKDLEEGIQTLMWRLEDGSP RTGQIFNQSYSKFDTKSHNDDALLKNYGLLYCFRKDMDKVETFLRIVQCRSVEGSCGF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	46.75
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — GH2

Entrez GeneID	2689
GeneBank Accession#	BC020760
Protein Accession#	AAH20760.1
Gene Name	GH2
Gene Alias	GH-V, GHL, GHV, hGH-V
Gene Description	growth hormone 2
Omim ID	139240
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a member of the somatotropin/prolactin family of hormones w hich play an important role in growth control. The gene, along with four other related genes, is loca ted at the growth hormone locus on chromosome 17 where they are interspersed in the same tran scriptional orientation; an arrangement which is thought to have evolved by a series of gene duplic ations. The five genes share a remarkably high degree of sequence identity. Alternative splicing g enerates additional isoforms of each of the five growth hormones, leading to further diversity and potential for specialization. As in the case of its pituitary counterpart, growth hormone 1, the predo minant isoform of this particular family member shows similar somatogenic activity, with reduced l actogenic activity. Mutations in this gene lead to placental growth hormone/lactogen deficiency. [p rovided by RefSeq
Other Designations	placenta-specific growth hormone|placental-specific growth hormone

Pathway

- Cytokine-cytokine receptor interaction
- Jak-STAT signaling pathway
- Neuroactive ligand-receptor interaction

Disease

- Adenocarcinoma
- Birth Weight
- Esophageal Neoplasms
- Esophagitis
- Metabolic Syndrome X
- Metaplasia