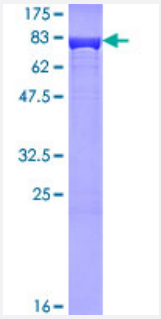
Full-Length

# HSPD1 (Human) Recombinant Protein (P01)

Catalog # H00003329-P01 Size 25 ug, 10 ug

## Applications




## Specification

| | |
|---|---|
| **Product Description** | Human HSPD1 full-length ORF ( AAH02676.1, 1 a.a. - 573 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Sequence** | MLRLPTVFRQMRPVSRVLAPHLTRAYAKDVKFGADARALMLQGVDLLADAVAVTMGPKGRTVIIE QSWGSPKVTKDGVTVAKSIDLKDKYKNIGAKLVQDVANNTNEEAGDGTTTATVLARSIAKEGFEKI SKGANPVEIRRGVMLAVDAVIAELKKQSKPVTTPEEIAQVATISANGDKEIGNIISDAMKKVGRKGVI TVKDGKTLNDELEIIEGMKFDRGYISPYFINTSKGQKCEFQDAYVLLSEKKISSIQSIVPALEIANAHR KPLVIIAEDVDGEALSTLVLNRLKVGLQVVAVKAPGFGDNRKNQLKDMAIATGGAVFGEEGLTLNL EDVQPHDLGKVGEVIVTKDDAMLLKGKGDKAQIEKRIQEIIEQLDVTTSEYEKEKLNERLAKLSDG VAVLKVGGTSDVEVNEKKDRVTDALNATRAAVEEGIVLGGGCALLRCIPALDSLTPANEDQKIGIEI IKRTLKIPAMTIAKNAGVEGSLIVEKIMQSSSEVGYDAMAGDFVNMVEKGIIDPTKVVRTALLDAAGV ASLLTTAEVVVTEIPKEEKDPGMGAMGGMGGGMGGGMF |
| **Host** | Wheat Germ (in vitro) |
| **Theoretical MW (kDa)** | 88.77 |
| **Interspecies Antigen Sequence** | Mouse (98); Rat (98) |
| **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 — HSPD1

| | |
|---|---|
| **Entrez GeneID** | 3329 |
| **GeneBank Accession#** | BC002676 |
| **Protein Accession#** | AAH02676.1 |
| **Gene Name** | HSPD1 |
| **Gene Alias** | CPN60, GROEL, HLD4, HSP60, HSP65, HuCHA60, SPG13 |
| **Gene Description** | heat shock 60kDa protein 1 (chaperonin) |
| **Omim ID** | 118190 605280 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | This gene encodes a member of the chaperonin family. The encoded mitochondrial protein may function as a signaling molecule in the innate immune system. This protein is essential for the folding and assembly of newly imported proteins in the mitochondria. This gene is adjacent to a related family member and the region between the 2 genes functions as a bidirectional promoter. Two pseudogenes, both located on chromosome 8, have been associated with this gene. Two transcript variants encoding the same protein have been identified for this gene. Mutations associated with this gene cause autosomal recessive spastic paraplegia 13. [provided by RefSeq |

| | |
|---|---|
| **Other Designations** | P60 lymphocyte protein\|chaperonin\|heat shock 60kD protein 1 (chaperonin)\|heat shock protein 65 \|mitochondrial heat shock 60kD protein 1 variant 1\|mitochondrial matrix protein P1\|short heat sho ck protein 60 Hsp60s1\|spastic paraplegia 13 (autosomal dominant) |

## Pathway

- RNA degradation
- Type I diabetes mellitus

## Disease

- Alzheimer disease
- Arthritis
- Cardiovascular Diseases
- Coronary Disease
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Genetic Predisposition to Disease
- Metabolic Syndrome X
- Multiple Sclerosis
- Neoplasms
- Osteoporosis
- Spastic Paraplegia