

Recombinant Full Length Human HSPD1 Protein, GST-tagged

Cat. No. HSPD1-5652HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human HSPD1 full-length ORF (AAH02676.1, 1 a.a. - 573 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	573 amino acids
Description	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]
Molecular Mass	88.77 kDa
AA Sequence	MLRLPTVFRQMRPVSRVLAPHLTRAYAKDVKFGADARALMLQGVDLLADAVAVTMG PKGRTVIIQSWGSPKVTKDGVTVAKSIDLKDKYKNIGAKLVQDVANNTNEEAGDGT TTATVLARSIAKEGFEEKISKGANPVEIRRGVMLAVDAVIAELKKQSKPVTTPEEIAQVA TISANGDKEIGNIISDAMKKVGRKGVITVKDGKTLNDELEIIIEGMKFDRGYISPYFINTS

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KGQKCEFQDAYVLLSEKKISSIQSIVPALEIANAHRKPLVIAEDVDGEALSTLVNRLK
VGLQVVAVKAPGFGDNRKNQLKDMAIATGGAVFGEEGLTNLEDVQPHDLGKVGE
VIVTKDDAMLLKGKGDKAQIEKRIQEIIQLDVTTSEYEKEKLNERLAKLSDGVAVLKV
GGTSDVEVNEKKDRVTDALNATRAAVEEGIVLGGGCALLRCIPALDSLTPANEDQKI
GIEIIRTLKIPAMTIAKNAGVEGSLIVEKIMQSSSEVGYDAMAGDFVNMVEKGIIDPTK
VVRTALLDAAGVASLLTTAEVVVTEIPKEEKDPGMGAMGGMGGMGGGMGGMF

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

HSPD1 heat shock 60kDa protein 1 (chaperonin) [Homo sapiens]

Official Symbol

HSPD1

Synonyms

HSPD1; heat shock 60kDa protein 1 (chaperonin); heat shock 60kD protein 1 (chaperonin) , spastic paraplegia 13 (autosomal dominant) , SPG13; 60 kDa heat shock protein, mitochondrial; GROEL; HSP60; chaperonin 60; 60 kDa chaperonin; heat shock protein 65; P60 lymphocyte protein; mitochondrial matrix protein P1; short heat shock protein 60 Hsp60s1; HLD4; CPN60; HSP65; SPG13; HSP-60; HuCHA60;

Gene ID

3329

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mRNA Refseq	NM_002156
Protein Refseq	NP_002147
MIM	118190
UniProt ID	P10809

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