

Recombinant Human HSPD1, His-tagged

Cat. No. HSPD1-13997H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HSPD1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	225-573a.a.
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. Several pseudogenes 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.
Source	E.coli
Species	Human
Tag	His
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing

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cycles.

Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

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

mRNA Refseq

NM_002156

Protein Refseq

NP_002147

MIM

118190

UniProt ID

P10809

Chromosome Location

2q33.1

Pathway

Legionellosis, organism-specific biosystem; Legionellosis, conserved biosystem;

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Metabolism of proteins, organism-specific biosystem; Mitochondrial Protein Import, organism-specific biosystem; RNA degradation, organism-specific biosystem; RNA degradation, conserved biosystem; SIDS Susceptibility Pathways, organism-specific biosystem;

Function

ATP binding; ATPase activity; DNA replication origin binding; cell surface binding; chaperone binding; lipopolysaccharide binding; nucleotide binding; p53 binding; protein binding; single-stranded DNA binding; unfolded protein binding; unfolded protein bi

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