Recombinant Human Heat Shock 60kDa Protein 1 (Chaperonin), His-tagged;

Cat. No. HSPD1-326H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSP60, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (593 aa,63 kDa).
Species	Human
Source	E.coli
Description	Heat shock protein 60 (HSP60) is a mitochondrial chaperonin that is typically held responsible for the transportation and refolding of proteins from the cytoplasm into the mitochondrial matrix. HSP60 is the ~60kDa mammalian equivalent to GroEL of E.coli.Process of HSP60 is regulated by the cochaperonin HSP10, a single heptameric ring of ~10kD subunits that forms a complex with HSP60. HSP10 coordinates the ATPase activity of the HSP60 subunits to allow the release of bound polypeptide in a manner productive for folding.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 5 mM DTT, 10% glycerol.
Molecular Weight	63 kDa (593aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MGSSHHHHHH SSGLVPRGSH MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV

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	KFGADARALM LQGVDLLADA VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQD VANNTNEEAG DGTTTATVLA RSIAKEGFEK ISKGANPVEI RRGVMLAVDA VIAELKKQSK PVTTPEEIAQ VATISANGDK EIGNIISDAM KKVGRKGVIT VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFQ DAYVLLSEKK ISSIQSIVPA LEIANAHRKP LVIIAEDVDG EALSTLVLNR LKVGLQVVAV KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGEVIV TKDDAMLLKG KGDKAQIEKR IQEIIEQLDV TTSEYEKEKL NERLAKLSDG VAVLKVGGTS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA LDSLTPANED QKIGIEIIKR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE VGYDAMAGDF VNMVEKGIID PTKVVRTALL DAAGVASLLT TAEVVVTEIP KEEKDPGMGA MGGMGGGMGG GMF
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	HSPD1
Synonyms	HSPD1; heat shock 60kDa protein 1 (chaperonin); HSPD1 heat shock 60kDa protein 1 (chaperonin); HLD4; CPN60; GROEL; HSP60; HSP65; SPG13; HuCHA60; HSPD1; Hsp60; HSP-60; 60 kDa chaperonin; Chaperonin 60; Heat shock protein 60; Mitochondrial matrix protein P1; P60 lymphocyte protein; chaperonin; heat shock 60kD protein 1 (chaperonin); heat shock 60kDa protein 1 (chaperonin); heat shock protein 65; short heat shock protein 60 Hsp60s1; spastic paraplegia 13 (autosomal dominant).
Gene ID	3329
mRNA Refseq	NM_002156.4

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Protein Refseq	NP_002147.2
MIM	118190
UniProt ID	P10809
Chromosome Location	2q33.1
Pathway	Prion disease; Type I diabetes mellitus.
Function	ATP binding; ATPase activity; DNA replication origin binding; cell surface binding; chaperone binding; lipopolysaccharide binding; nucleotide binding; p53 binding; single-stranded DNA binding; unfolded protein binding.

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