

Active Recombinant Human HSPD1 protein, His-tagged

Cat. No. HSPD1-1555H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human HSPD1, 573 amino acids was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-573 a.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.
Form	20 mM Tris-HCl, pH 7.5, 50 mM KCl, 1 mM DTT, 5 mM MgCl ₂ .
Bio-activity	The protein has ATPase activity at the time of manufacture of 3.6 μ M phosphate liberated/hr/ μ g protein in a 200 μ l reaction at 37 centigrade (pH7.5) in the presence of 20 μ l of 1 mM ATP using a Malachite Green assay.
Molecular Mass	60 kDa

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Storage	Stable for 2 years at -70 centigrade from date of shipment. Please aliquot to avoid repeated freezing and thawing.
Full Length	Full L.
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