

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

Cat. No. HSPD1-4854H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human HSPD1 was expressed in E. coli cells using a N-terminal GST tag.
Species	Human
Source	E.coli
Description	HSPD1 is a chaperonin protein, required for ATP-dependent folding of precursor polypeptides and complex assembly and prevents aggregation and mediates protein refolding after heat shock. Mutations and variations in the HSPD1 gene product may be implicated in genetic diseases. HSPD1 has been strongly implicated as an example of molecular mimicry in the pathogenicity of autoimmune diseases in T cell-mediated protection. Human HSPD1 was found to activate the complement system in normal human serum in a dose-dependent manner. Since complement activation plays an important role in the development of atherosclerosis, the levels of complement-activating anti- HSPD1 antibodies are elevated in atherosclerosis-related diseases.
Applications	Western Blot
Molecular Weight	85 kDa
Expression System	E. coli

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Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 25% glycerol.
Purity	> 95 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	RNA degradation; SIDS Susceptibility Pathways; Tuberculosis; Type I diabetes mellitus; Validated targets of C-MYC transcriptional activation

GENE INFORMATION

Gene Name	HSPD1 heat shock 60kDa protein 1 (chaperonin) [Homo sapiens]
Official Symbol	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

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mRNA Refseq	NM_002156
Protein Refseq	NP_002147
MIM	118190
UniProt ID	P10809
Chromosome Location	2q33.1
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

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