HSP60 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	HSP60, Blocking Peptide
Full Product Name	HSP60 Blocking Peptide
Product Gene Name	HSP60 blocking peptide
Product Synonym Gene Name	HSPD1
Product Synonym Names	60 kDa chaperonin; 60 kDa heat shock protein, mitochondrial; CH60_HUMAN; Chaperonin 60; Chaperonin, 60-KD; CPN60; fa04a05; GROEL; heat shock 60kDa protein 1 (chaperonin); Heat shock protein 1 (chaperonin); Heat shock protein 60; Heat shock protein 65; heat shock protein family D (Hsp60) member 1; HLD4; Hsp 60; HSP 65; HSP-60; HSP60; HSP65; HSPD1; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein; short heat shock protein 60 Hsp60s1; SPG13
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	HSP60 peptide (MBS9617078) is used for blocking the activity of HSP60 antibody (MBS9601546)
Molecular Weight	61,055 Da
Chromosome Location	Chromosome: 2; NC_000002.11 (198351308..198364998, complement). Location: 2q33.1
OMIM	118190
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for HSP60 blocking peptide	Blocking/Control
Related Product Information for HSP60 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of HSP60 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for HSP60 purchase	MBS9617078 is a blocking peptide targeting HSP60.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for HSP60. It may not necessarily be applicable to this product.

NCBI GI #	31542947
NCBI GeneID	3329

NCBI Accession #	NP_002147.2
UniProt Primary Accession #	P10809
UniProt Secondary Accession #	Q38L19; Q9UCR6; B2R5M6; B7Z712
UniProt Related Accession #	P10809
GenBank Nucleotide #	NM_002156.4
NCBI Official Full Name	60 kDa heat shock protein, mitochondrial
NCBI Official Synonym Full Names	heat shock 60kDa protein 1 (chaperonin)
NCBI Official Symbol	HSPD1
NCBI Official Synonym Symbols	HLD4; CPN60; GROEL; HSP60; HSP65; SPG13; HSP-60; HuCHA60
UniProt Protein Name	60 kDa heat shock protein, mitochondrial
UniProt Synonym Protein Names	60 kDa chaperonin; Chaperonin 60; CPN60; Heat shock protein 60; HSP-60; Hsp60; HuCHA60; Mitochondrial matrix protein P1; P60 lymphocyte protein
Protein Family	Hydrogenosomal chaperonin
UniProt Gene Name	HSPD1
UniProt Synonym Gene Names	HSP60; CPN60; HSP-60; Hsp60
UniProt Entry Name	CH60_HUMAN
NCBI Protein Information	60 kDa heat shock protein, mitochondrial; chaperonin 60; 60 kDa chaperonin; heat shock protein 65; P60 lymphocyte protein; mitochondrial matrix protein P1; short heat shock protein 60 Hsp60s1
NCBI Summary for HSP60	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. [provided by RefSeq, Jun 2010]

UniProt Comments for HSP60	HSP60: Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix. Interacts with HRAS. Interacts with HBV protein X and HTLV-1 protein p40tax. Belongs to the chaperonin (HSP60) family. Protein type: Chaperone; Mitochondrial Chromosomal Location of Human Ortholog: 2q33.1 Cellular Component: extracellular space; protein complex; cell surface; mitochondrion; early endosome; coated pit; cytosol; secretory granule; membrane; mitochondrial matrix; cytoplasm; mitochondrial inner membrane; plasma membrane; lipopolysaccharide receptor complex; cyclin-dependent protein kinase activating kinase holoenzyme complex Molecular Function: protein binding; lipopolysaccharide binding; p53 binding; ubiquitin protein ligase binding; chaperone binding; unfolded protein binding; double-stranded RNA binding; ATPase activity; DNA replication origin binding; ATP binding; single-stranded DNA binding Biological Process: caspase activation; B cell proliferation; viral reproduction; B cell activation; protein stabilization; T cell activation; positive regulation of interleukin-12 production; positive regulation of apoptosis; protein maturation; isotype switching to IgG isotypes; positive regulation of interleukin-6 production; B cell cytokine production; positive regulation of interleukin-10 production; response to unfolded protein; MyD88-dependent toll-like receptor signaling pathway; positive regulation of interferon-gamma production; 'de novo' protein folding; protein refolding; positive regulation of T cell mediated immune response to tumor cell; positive regulation of T cell activation; chaperone-mediated protein complex assembly; positive regulation of interferon-alpha production; negative regulation of apoptosis; positive regulation of macrophage activation Disease: Spastic Paraplegia 13, Autosomal Dominant; Leukodystrophy, Hypomyelinating, 4
Research Articles on HSP60	**1.** Hsp60 is a key factor for protein homeostasis and cell survival, and this chaperonin is involved in various ways in the onset and progression of aging-related diseases.[review]
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