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HSP60 Protein, Mouse (His)

Cat. No.: HY-P73916

Synonyms: 60 kDa heat shock protein, mitochondrial; CPN60; HSP-60; HSPD1

Species: Mouse
Source: E. coli

Accession: P63038 (L2-F573)

Gene ID: 15510

Molecular Weight: Approximately 58 kDa

PROPERTIES

AA Sequence				
701 ocquence	LRLPTVLRQM	RPVSRALAPH	LTRAYAKDVK	FGADARALML
	QGVDLLADAV	AVTMGPKGRT	VIIEQSWGSP	KVTKDGVTVA
	KSIDLKDKYK	NIGAKLVQDV	ANNTNEEAGD	GTTTATVLAR
	SIAKEGFEKI	SKGANPVEIR	$R\;G\;V\;M\;L\;A\;V\;D\;A\;V$	IAELKKQSKP
	VTTPEEIAQV	ATISANGDKD	IGNIISDAMK	KVGRKGVITV
	KDGKTLNDEL	EIIEGMKFDR	GYISPYFINT	SKGQKCEFQD
	AYVLLSEKKI	SSVQSIVPAL	EIANAHRKPL	VIIAEDVDGE
	ALSTLVLNRL	KVGLQVVAVK	APGFGDNRKN	QLKDMAIATG
	GAVFGEEGLN	LNLEDVQAHD	LGKVGEVIVT	KDDAMLLKGK
	GDKAHIEKRI	QEITEQLDIT	TSEYEKEKLN	ERLAKLSDGV
	AVLKVGGTSD	VEVNEKKDRV	TDALNATRAA	VEEGIVLGGG
	CALLRCIPAL	DSLKPANEDQ	KIGIEIIKRA	LKIPAMTIAK
	NAGVEGSLIV	EKILQSSSEV	GYDAMLGDFV	NMVEKGIIDP
	TKVVRTALLD	AAGVASLLTT	AEAVVTEIPK	EEKDPGMGAM
	GGMGGGMGGG	M F		
Appearance	Solution.			
Formulation	Supplied as a 0.22 μm filtered solution of PBS, pH 7.4.			
Endotoxin Level	<1 EU/μg, determined by LAL method.			
Reconsititution	N/A.			
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.			
Shipping	Shipping with dry ice.			

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DESCRIPTION

Background

The HSP60 protein plays a crucial role in mitochondrial protein import and macromolecular assembly. Along with Hsp10, it facilitates the proper folding of imported proteins and may also prevent misfolding while promoting the refolding and appropriate assembly of unfolded polypeptides generated during stressful conditions in the mitochondrial matrix. These chaperonins consist of heptameric rings formed by the large subunit Hsp60, which align in a back-to-back double ring configuration. Through a cyclic process, Hsp60 ring complexes bind one unfolded substrate protein per ring, followed by ATP binding and association with two heptameric rings of the co-chaperonin Hsp10. This leads to the encapsulation of the substrate protein within the inner cavity of Hsp60, allowing it to fold undisturbed by other cellular components for a certain period. Synchronized ATP hydrolysis in all Hsp60 subunits causes the dissociation of the chaperonin rings, releasing ADP and the properly folded substrate protein.

Caution: Product has not been fully validated for medical applications. For research use only.

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