

Recombinant Human Heat Shock 10 KDa Protein 1 (Chaperonin 10)

Cat. No. HSPE1-5043H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human HSP10 was expressed in E. coli and purified by using conventional chromatography techniques.
Species	Human
Source	Human
Description	Heat shock protein (HSP) 10 is a member of the highly conserved group of molecular chaperons, which are necessary for efficient folding of many proteins in normal and stress conditions and have been implicated in several human diseases. HSP10 is the ~10kD mammalian equivalent to GroES of E. coli. The function of Hsp10 is to bind Hsp60 (also known as chaperonin-60), in the presence of ATP, thereby promoting a conformational change in Hsp60 and enclosing the protein substrate within the complex. ATP hydrolysis by Hsp60 destabilizes the Hsp60/ Hsp10 complex, allowing it to dissociate and release the substrate protein.
Concentration	1 mg/ml
Form	Supplied as a liquid in 20mM Tris, pH 8.0, containing 50mM NaCl.
Purity	> 90% by SDS - PAGE
Sequence	1-102 amino acids: MAGQAFRKFL PLFDRVLVER SAAETVTKGG IMLPEKSQ GK VLQATVVAVG SGSKGKGGEI QPVSVKVGDK VLLPEYGGTK VVLD DKDYFL

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	FRDGDILGKY VD
Molecular Mass	10 kDa (102 aa), confirmed by MALDI-TOF.
Applications	SDS-PAGE
Storage	Store at 4 deg C for short term storage (1/2 weeks). Aliquot and store at -20 deg C or - 70 deg C for long term storage. Avoid repeated freeze/thaw cycles.
GENE INFORMATION	
Gene Name	HSPE1 heat shock 10kDa protein 1 (chaperonin 10) [Homo sapiens]
Official Symbol	HSPE1
Synonyms	HSPE1; CPN10; GROES; HSP10; EPF; Hsp10; 10 kDa chaperonin; 10 kDa heat shock protein; mitochondrial; Early-pregnancy factor; chaperonin 10; heat shock 10kD protein 1
Gene ID	3336
mRNA Refseq	NM_002157
Protein Refseq	NP_002148
MIM	600141
UniProt ID	P61604
Chromosome Location	2q33.1

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Function

ATP binding; chaperone binding; protein binding; unfolded protein binding

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