

HSP10 recombinant protein

HSP10, 1-102aa, Human, E Coli

CATALOG # AAA11744	HOST E Coli	APPLICATIONS SDS-Page
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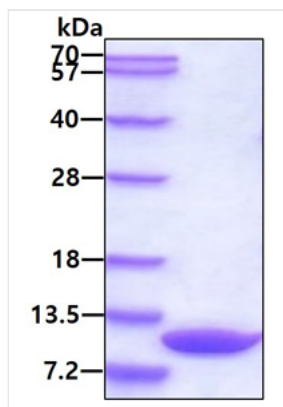
PRODUCT SYNONYMS

HSP10; 1-102aa; Human; E Coli; Heat shock protein 10; Chaperonin 10; CPN10; GroES; Heat shock protein 10 10 kDa chaperonin; HSPE 1; HSPE1; 10 kDa heat shock protein mitochondrial; Cpn 10; Early pregnancy factor; EPF; Heat shock 10kD protein 1; Heat shock 10kD protein 1 chaperonin 10; Heat shock 10kDa protein 1; HSP 10; Heat shock 10kDa protein 1 chaperonin 10; ; HSP10 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid in 20mM Tris pH 8.0, 50mM NaCl
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MAGQAFRKFL PLFDRVLVER SAAETVTKGG IMLPEKSQ GK VLQATVVAVG SGSKGKGGEI QPVSVKVGDK VLLPEYGGTK VVLDKDYFL FRDGDILGKY VD
Sequence Length	102
Applicable Applications for HSP10 recombinant protein	SDS-PAGE
Tag	Non-tagged
Domain	1-102aa
Endotoxin Level	< 1.0 EU per 1 ug of protein (determined by LAL method)
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

3 ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for HSP10 recombinant protein	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. Recombinant human HSP10 was expressed in E Coli and purified by using conventional chromatography techniques.
Product Categories/Family for HSP10 recombinant protein	Heat Shock Proteins
References	Lin KM., et al. (2004), FASEB J. 18 (9):1004-6; Hohfeld J., et al. (1994), J. Cell Biol. 126 (2):305-15

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504523
NCBI GeneID	3336
NCBI Accession #	NP_002148
NCBI GenBank Nucleotide #	NM_002157.2
UniProt Accession #	P61604 ; O95421 ; Q04984 ; Q53X54 ; Q9UDH0
Molecular Weight	10.9 kDa (102 aa) confirmed by MALDI-TOF.
NCBI Official Full Name	10 kDa heat shock protein, mitochondrial
NCBI Official Synonym Full Names	heat shock protein family E (Hsp10) member 1
NCBI Official Symbol	HSPE1
NCBI Official Synonym Symbols	EPF; CPN10; GROES; HSP10
NCBI Protein Information	10 kDa heat shock protein, mitochondrial
UniProt Protein Name	10 kDa heat shock protein, mitochondrial
UniProt Gene Name	HSPE1
UniProt Synonym Gene Names	Hsp10; CPN10; EPF

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hspe1-recombinant-protein-e-coli-sds-page/11744>