

Recombinant Human, HSPE1 His-tagged

Cat. No. HSPE1-3679H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 111 AA. MW: 12.0 kDa (calculated). N-Terminal His-tag (10 extra AA)
Species	Human
Source	E.coli
Description	Heat shock 10kDa protein 1 (chaperonin 10) , also known as HSPE1, GroES or cpn10 , is a chaperonin which usually works in conjunction with GroEL.[1] In eukaryotes, it is very similar to Heat Shock Protein 10 or Hsp10.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 0.05 M phosphate buffer, 0.075 M NaCl, pH 7.4
Purity	>90%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	ELISA; Western blotting
Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein; LAL to determine quantity of endotoxin
Sequences of amino	MKHHHHHHAS AGQAFRKFLP LFDRVLVERS AAETVTKGGI MLPEKSQGVK

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acids	LQATVVAVGS GSKGKGGEIQ PVSVKVGDKV LLPEYGGTKV VLDDKDYFLF RDGDILGKYV D
Storage	Store lyophilized protein at -80°C. Lyophilized protein remains stable until the expiry date when stored at -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a week.
GENE INFORMATION	
Gene Name	HSPE1 heat shock 10kDa protein 1 (chaperonin 10) [Homo sapiens]
Official Symbol	HSPE1
Synonyms	CPN10; GROES; HSP10; EPF; HSP10; Hsp10; 10 kDa chaperonin; 10CPN10; GROES; HSP10; EPF; HSP10; Hsp10; kDa heat shock protein; mitochondrial; Early-pregnancy factor; chaperonin10;heat shock 10kD protein 1; HSPE1; heat shock 10kDa protein 1 (chaperonin 10)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	P61640
Chromosome	2q33.1

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Location	
Pathway	ATP binding, chaperone binding, unfold protein binding
Function	caspase activation, protein folding, response to unfolded protein

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