

Recombinant Human Heat Shock 10kDa Protein 1 (Chaperonin 10), GST-tagged

Cat. No. HSPE1-4855H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full-length human HSPE1 was expressed in E. coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
Description	HSPE1 is a 10-kDa stress-inducible mitochondrial protein which is a member of the heat shock proteins. HSPE1 is synthesized at elevated rates in cultured rat hepatoma cells challenged with heat shock or amino acid analogues. HSPE1 has been implicated in multiple disease states in humans. In myocardial samples from patients with chronic atrial fibrillation, cardiomyocytes respond to chronic atrial fibrillation with increased expression of HSPE1 and HSP60 . HSP10 is also overexpressed early in prostate carcinogenesis. HSPE1 is also overexpressed in large bowel carcinomas and it may have diagnostic and prognostic significance in the management of this tumour .
Applications	Western Blot
Molecular Weight	36 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50mM Tris-HCl, pH 7.5, 150mM NaCl, 0.25 mM DTT,

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	0.1 mM PMSF, 25% glycerol.
Purity	> 90 %
Concentration	0.2 ug/ul
Sequences	Full-length
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
GENE INFORMATION	
Gene Name	HSPE1 heat shock 10kDa protein 1 (chaperonin 10) [Homo sapiens]
Official Symbol	HSPE1
Synonyms	HSPE1; heat shock 10kDa protein 1 (chaperonin 10); Hsp10; EPF; CPN10; GROES; HSP10; 10 kDa heat shock protein, mitochondrial; chaperonin 10; 10 kDa chaperonin; OTTHUMP00000163630; OTTHUMP00000205751; OTTHUMP00000205752; early-pregnancy factor; heat shock 10kD protein 1 (chaperonin 10)
Gene ID	3336
mRNA Refseq	NM_002157
Protein Refseq	NP_002148
MIM	600141

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UniProt ID	P61604
Chromosome Location	2q33.1
Function	ATP binding; chaperone binding; chaperone binding; protein binding; unfolded protein binding

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