



# Recombinant Human 10 kDa heat shock protein, mitochondrial (HSPE1)

<b>Product Code</b>	CSB-EP010865HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P61604
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	AGQAFRKFL PLFDRVLVER SAAETVTKGG IMLPEKSQ GK VLQATVVAVG SGSKGKGG EI QPVSVKVGD K VLLPEYGGTK VVLDDKDYFL FRDGDILGKY VD
<b>Source</b>	E.coli
<b>Target Names</b>	HSPE1
<b>Protein Names</b>	Recommended name: 10 kDa heat shock protein, mitochondrial Short name= Hsp10 Alternative name(s): 10 kDa chaperonin Chaperonin 10 Short name= CPN10 Early-pregnancy factor Short name= EPF
<b>Expression Region</b>	2-102
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	This gene encodes a major heat shock protein which functions as a chaperonin. Its structure consists of a heptameric ring which binds to another heat shock protein in order to form a symmetric, functional heterodimer which enhances protein folding in an ATP-dependent manner. This gene and its co-chaperonin, HSPD1, are arranged in a head-to-head orientation on chromosome 2.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Shelf Life</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.