

Recombinant human HSP10/EPF protein

Catalog Number: HSP0801

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-102aa

UniProt No.

P61604

NCBI Accession No.

NP_002148

Alternative Names

Heat shock protein 10, Chaperonin 10, CPN10, GroES, Heat shock protein 10, HSP10, 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, HSP10, Heat shock 10kDa protein 1 chaperonin 10,

PRODUCT SPECIFICATION

Molecular Weight

10.9 kDa (102aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 50mM NaCl

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Heat shock protein (HSP) 10 is a member of the highly conserved group of molecular chaperons, which are

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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.

Amino acid Sequence

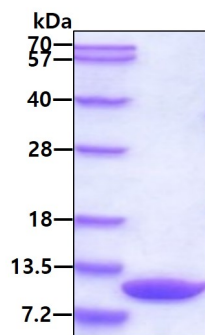
MAGQAFRKFL PLFDRVLVER SAAETVTKGG IMLPEKSQ GK VLQATVVAVG SGSKGKGGEI QPVSVKVGDK VLLPEYGGTK VLLDDKDYFL FRDGDILGKY VD

General References

Lin KM., et al. (2004), FASEB J. 18(9):1004-6
Hohfeld J., et al. (1994), J. Cell Biol. 126(2):305-15

DATA

SDS-PAGE



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