

Datasheet for ABIN1686730

**HSPE1 Protein****1** Image**1** Publication[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	HSPE1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Sequence:	MAGQAFRKFL PLFDRV LVER SAAETVTKGG IMLPEKSQ GK VLQATVVAVG SGSKGKGGEI QPVSVKVGDK VLLPEYGGTK VVLD DKDYFL FRDGDILGKY VD
Specificity:	~10 kDa
Purification:	Multi-Step Purified
Purity:	>90%

## Target Details

Target:	HSPE1
Alternative Name:	Cpn10 ( <a href="#">HSPE1 Products</a> )
Background:	Chaperonin 10, otherwise known as Cpn10, (groES in E.coli) make up a family of small heat shock proteins with an approximate molecular mass of 10 kDa (HSP10s). Cpn10 acts as a co-chaperone and interacts with the HSP60 family to promote proper folding of polypeptides. Cpn10 and Cpn60 both exhibit sevenfold axis of symmetry and function as a team in the

## Target Details

protein folding and assembly process (1). Cpn10 has been located in human platelets, but is also present in human maternal serum (2, 3). It has been reported that human Cpn10 is identical with early pregnancy factor, which is involved in control over cell growth and development. This identification suggest that Cpn10 may act like a hormone in stressful situations such as pregnancy (4).

Molecular Weight: approx. 10 kDa

Gene ID: 3336

NCBI Accession: [NM\\_002157](#)

UniProt: [P61604](#)

Pathways: [Positive Regulation of Endopeptidase Activity](#)

## Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Comment: This product has been certified >90% pure using SDS-PAGE analysis.

Restrictions: For Research Use only

## Handling

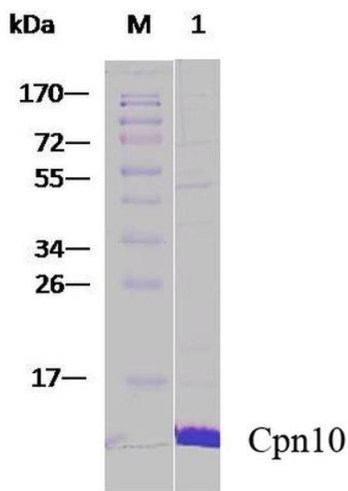
Concentration: Lot specific

Buffer: 20 mM Tris, pH 7.5, 0.3M NaCl, 10 % glycerol, 1 mM DTT

Storage: -20 °C

## Publications

Product cited in: Kaiser, Steptoe, Thompson, Henderson: "Monocyte cytokine synthesis in response to extracellular cell stress proteins suggests these proteins exhibit network behaviour." in: **Cell stress & chaperones**, Vol. 19, Issue 1, pp. 135-44, (2013) ([PubMed](#)).



SDS-PAGE

**Image 1.** SDS-PAGE of 10 kDa human Cpn10 protein (ABIN1686729, ABIN1686730 and ABIN1686731).