

ARG83301 Human Cpn 10 ELISA Kit

Package: 96 wells
Store at: 4°C

Summary

Product Description	ARG83301 Human Cpn 10 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human Cpn 10 in Serum, Plasma and Cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Specificity	There is no detectable cross-reactivity with other relevant proteins.
Target Name	Cpn 10
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	75 pg/ml
Detection Range	156 pg/ml - 10,000 pg/ml
Sample Type	Serum, Plasma and Cell culture supernatants
Precision	Intra-Assay CV: 5.7% Inter-Assay CV: 4.8%
Alternate Names	HSP10; 10 kDa chaperonin; CPN10; Early-pregnancy factor; Hsp10; GROES; EPF; Chaperonin 10; 10 kDa heat shock protein, mitochondrial

Application Instructions

Assay Time	~ 5 hours
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Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

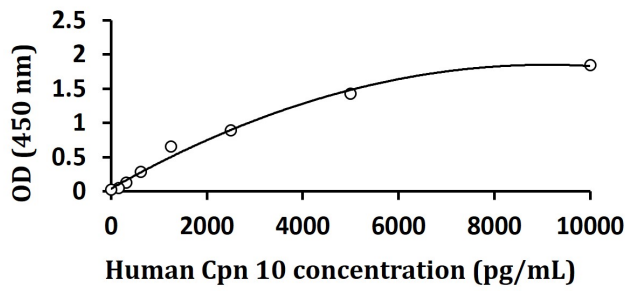
Bioinformation

Gene Symbol	HSPE1
Gene Full Name	heat shock 10kDa protein 1
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 10kDa (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 protein folding and assembly process. Cpn10 has been located in human platelets, but is also present in human maternal serum. 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.

Function	Eukaryotic CPN10 homolog which is essential for mitochondrial protein biogenesis, together with CPN60. Binds to CPN60 in the presence of Mg-ATP and suppresses the ATPase activity of the latter. [UniProt]
Research Area	Metabolism antibody; Signaling Transduction antibody
Cellular Localization	Mitochondrion Matrix

Images



ARG83301 Human Cpn 10 ELISA Kit standard curve image

ARG83301 Human Cpn 10 ELISA Kit results of a typical standard run with optical density reading at 450 nm.