

HSP10/EPF Protein, Human/Mouse (His-Avi)

Cat. No.:	HY-P700699
Synonyms:	Cpn10; HSPE1; Hsp10; Chaperonin 10; CPN10; EPF; GROES
Species:	Human;Mouse
Source:	E. coli
Accession:	XP_005676362 (A2-D102)
Gene ID:	102173048
Molecular Weight:	13.70 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μ m filtered solution of PBS, pH 7.4. Normally 8% trehalose is added as protectant before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Heat shock 10 kDa protein 1 (Hsp10), also known as chaperone protein 10 or Early pregnancy factor (EPF), is a protein encoded by the human HSPE1 gene. The homolog in E. coli is GroES, which is a chaperone protein that usually works in conjunction with GroEL. The HSP10/EPF protein in collaboration with Hsp60 promotes the correct folding of the input protein and, under stressful conditions in the mitochondrial matrix, prevents misfolding while promoting the refolding and correct assembly of the unfolded polypeptide. The increased expression of HSP10 protein can inhibit the apoptosis of astrocytoma cells and is associated with poor prognosis ^{[1][2][3]} .
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Caution: Product has not been fully validated for medical applications. For research use only.

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