
Product Data Sheet

Product Name: GroES Human, His
 Cat. No.: GP25087
 Batch No.: 1

Product Data

Purity	>98%	Source	E. coli
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	CPN10; GROES; HSP10; HSPE1; Chaperonin-10; 10 kDa heat shock protein mitochondrial; 10 kDa chaperonin; Early-pregnancy factor; EPF.		
Amino Acid Sequence	MKHHHHHHAS AGQAFRKFLP LFDRVLVERS AAETVTKGGI MLPEKSQGVK LQATVVAVGS GSKGKGGEIQ PVSVKVGDV LLPEYGGTKV VLDDKDYFLF RDGDILGKYV D.		
Solubility	It is recommended to add deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it on cell culture.		
Formulation	GroES His Human was filtered (0.4µm) and lyophilized from 0.5 mg/ml supplied in 0.05M phosphate buffer, 0.075 M NaCl, pH 7.4.		

Introduction

HSP10 is part of the molecular chaperons, that are crucial for their efficient folding of proteins in normal as well as stress conditions. GroES function is to bind to HSP60 in the presence of ATP, thus causing a change in the HSP60 conformation & enclosing the protein substrate within the complex. ATP hydrolysis by chaperonin-60 which destabilizes the HSP10-HSP60 complex, thereby allowing it to dissociate and secrete the substrate protein. GroES having the NCBI accession number of NP_002148 was purified by using conventional chromatography techniques.

Stability

Store lyophilized GroES His at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted GroES His can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

GroES His Protein is 12.0 kDa protein containing 111 amino acid residues of the GroES Human and the 10 aa N-Terminal His-tag.

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