
Product Data Sheet

Product Name: GroES Human
 Cat. No.: GP25086
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CPN10; GROES; HSP10; HSPE1; Chaperonin-10; 10 kDa heat shock protein mitochondrial; 10 kDa chaperonin; Early-pregnancy factor; EPF.		
Amino Acid Sequence	MAGQAFRKFL PLFDRVLVER SAAETVTKGG IMLPEKSQ GK VLQATVAVG SGSKGKGGEI QPVSVKVGDK VLLPEYGGTK VLLDDKDYFL FRDGDILGKY VD.		
Formulation	The GroES protein contains 20mM Tris buffer pH-8 & 50mM NaCl.		

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 at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

Recombinant GroES produced in E.Coli is a single, non-glycosylated polypeptide chain containing 102 amino acids and having a molecular mass of 10 kDa.

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

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