
Product Data Sheet

Product Name: GroEL Human
 Cat. No.: GP25083
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CPN60; GROEL; HSP60; HSP65; SPG13; CHA60; GROL; crpA; mopA; 60 kDa heat shock protein mitochondrial; Heat shock protein 60; HSP-60; 60 kDa chaperonin; Chaperonin 60; Mitochondrial matrix protein P1; P60 lymphocyte protein; HuCHA60; HSPD1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV KFGADARALMLQGVDLLADA VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV AKSIDLKDKY KNIGAKLVQDVANNTNEEAG DGTTTATVLA RSIAKEGFEK ISKGANPVEI RRGVMLAVDA VIAELKKQSKPVTTPPEEIAQ VATISANGDK EIGNIISDAM KKVGRKGVIT VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFQ DAYVLLSEKK ISSIQSIVPA LEIANAHRKP LVIIAEDVDG EALSTLVLNR LKVGLQVVAV KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGEVIV TKDDAMLLKG KGDKAQIEKR IQEIIQLDV TTSEYEKEKL NERLAKLSDG VAVLKVGGTS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA LDSLTPANED QKIGIEIKR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE VGYDAMAGDF VNMVEKGIID PTKVVRTALL DAAGVASLLT TAEVVVTEIP KEEKDPGMGA MGGMGGGMGG GMF.		
Formulation	The GroEL protein contains 20mM Tris-HCl buffer pH-8.0, 5mM DTT and 10% Glycerol.		

Introduction

GroEL, HSP60 is a chaperonin located in the mitochondria which is responsible for the transportation & refolding of proteins from the cytoplasm directly into the mitochondrial matrix. GroEL is regulated by the HSP10 cochaperonin, which is a single heptameric protein ring having a molecular mass of 10 kDa which form a unique complex with HSP60. HSP10, GroES coordinates the ATPase activity of the HSP60 subunits in order to

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

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allow the release of bound polypeptide in a manner that is productive for its correct folding.

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 Human GroEL, HSP60 produced in E.Coli is a single, non-glycosylated polypeptide chain fused to a 20 a.a. His tag at N-terminus containing 593 amino acids (1-573 a.a.) and having a molecular mass of 63kDa. The HSP60 is purified by proprietary chromatographic techniques.

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