
Product Data Sheet

Product Name: GROEL (27-573) Human

Cat. No.: GP25084

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CPN60; GROEL; HLD4; HSP-60; HSP60; HSP65; HuCHA60; SPG13; Chaperonin 60; 60 kDa chaperonin; P60 lymphocyte protein; 60 kDa heat shock protein; mitochondrial.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAKDVK FGADARALML QGVDLLADAV AVTMGPKGRT VIIQSWGSP KVTKDGVTVA KSIDLKDKYK NIGAKLVQDV ANNTNEEAGD GTTTATVLAR SIAKEGFEDI SKGANPVEIR RGVMLAVDAV IAELKKQSKP VTTPEEIAQV ATISANGDKE IGNIISDAMK KVGRKGVITV KDGKTLNDEL EIIEGMKFDR GYISPYFINT SKGQKCEFQD AYVLLSEKKI SSIQSIVPAL EIANAHRKPL VIIAEDVDGE ALSTLVNLRL KVGLQVVAVK APGFGDNRKN QLKDMAIATG GAVFGEEGLT LNLEDVQPHD LGKVGEVIVT KDDAMLLKKG GDKAQIEKRI QEIIQLDVT TSEYEKEKLN ERLAKLSDGV AVLKVGGTSD VEVNEKKDRV TDALNATRAA VEEGIVLGGG CALLRCIPAL DSLTPANEDQ KIGIEIKRT LKIPAMTIK NAGVEGSLIV EKIMQSSEV GYDAMAGDFV NMVEKGIIDP TKVVRTALLD AAGVASLLTT AEVVVTEIPK EEKDPGMGAM GGMGGGMGGG MF.		
Formulation	GROEL protein solution (0.5mg/ml) contains 20mM Tris-HCl buffer, (pH 8.0) 0.1M NaCl 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 allow the release of bound polypeptide in a manner that is productive for its correct

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

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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

GROEL Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 572 amino acids (27-573 a.a.) and having a molecular mass of 60kDa. GROEL is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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