

## HSPD1

### Recombinant Human Heat Shock Protein 60

Catalog No.	CS458A	Quantity:	5 µg
	CS458B		20 µg
	CS458C		1 mg

**Alternate Names:** HLD4, CPN60, GROEL, HSP60, HSP65, SPG13, HSP-60, HuCHA60

**Description:** 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 folding.

**Physical Appearance:** Sterile filtered colorless solution.

**Gene ID:** 3329

**Purification:** The HSP60 is purified by proprietary chromatographic techniques

**Source:** *E. coli*

**Molecular Mass:** 63 kDa

**Formulation:** The GroEL protein contains 20 mM Tris-HCl buffer, pH-8.0 + 5 mM DTT and 10% Glycerol.

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Amino Acid Sequence:** **MGSSHHHHH SSGLVPRGSH** MLRLPTVFRQ MRPVSRVLAP HLTRAYAKDV  
KFGADARALM LQGVDLLADA VAVTMGPKGR TVIIEQSWGS PKVTKDGVTV  
AKSIDLKDKY KNIGAKLVQD VANNTNEEAG DGTATVLA RSIAKEGFEK  
ISKGANPVEI RRGVMLAVDA VIAELKKQSK PVTTPPEIAQ VATISANGDK EIGNIISDAM  
KKVGRKGVIT VKDGKTLNDE LEIIEGMKFD RGYISPYFIN TSKGQKCEFQ  
DAYVLLSEKK ISSIQSIVPA LEIANHRKP LVIIAEDVDG EALSTLVLNR LKVGLQVVAV  
KAPGFGDNRK NQLKDMAIAT GGAVFGEEGL TLNLEDVQPH DLGKVGIVIV  
TKDDAMLLKG KGDKAQIEKR IQEIIQLDV TTSEYEKEKL NERLAKLSDG  
VAVLKVGGTS DVEVNEKKDR VTDALNATRA AVEEGIVLGG GCALLRCIPA  
LDSLTPANED QKIGIEIKR TLKIPAMTIA KNAGVEGSLI VEKIMQSSSE VGYDAMAGDF  
VNMVEKGIID PTKVVRTALL DAAGVASLLT TAEVVVTEIP KEEKDPGMGA  
MGGMGGGMGG GMF.

**Storage & Stability:** This lyophilized preparation is stable at 2-4°C, but should be kept desiccated at -20°C for long term storage. Upon reconstitution, the preparation is stable for up to one week at 2-4°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. **Avoid repeated freeze/thaw cycles.**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

