83103 Avenue 48, Ste.1B #204
Coachella, CA 92236 USA
Phone : +1.6268339877
Email : info@cali-bio.com

California Bioscience

Product Datasheet

Product Name	GroEL (HSP60) Human Recombinant
Cata No	CB501407
Source	*Escherichia Coli.*
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.

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. The GroEL protein having the NCBI accession number NP_002147 was purified by using conventional chromatography techniques. Recombinant GroEL, HSP60 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 593 amino acids and having a molecular mass of 63kDa.
The HSP60 is fused to His tag at N-terminus.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The GroEL protein contains 25mM Tris-HCl buffer pH-7.5, 100mM NaCl, 5mM DTT and 10% Glycerol.

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.