
Product Data Sheet

Product Name: GroEL E.Coli
 Cat. No.: GP25082
 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 chaperonin; Protein Cpn60; groEL protein; b4143; JW4103.		
Amino Acid Sequence	MAAKDVKFGN DARVKMLRGV NVLADAVKVT LGPKGRNVVL DKSFGAPTIT KDGVSVAREIELEDKFENMG AQMVKEVASK ANDAAGDGTT TATVLAQAI TEGLKAVAAG MNPMDLKRIGDKAVTAAVEE LKALSVPCSD SKAIAQVGTI SANSDETVGK LIAEAMDKVG KEGVITVEDGTGLQDELVDV EGMQFDRGYL SPYFINKPET GAVELESPFI LLADKKISNI REMLPVLEAVAKAGKPLLI AEDVEGEALA TAVVNTIRGI VKVAAVKAPG FGDRRKAMLQ DIATLTGGTVISEEIGMELE KATLEDLGQA KRVVINKDTT TIIDGVGEEA AIQGRVAQIR QQIEEATSDYDREKLQERVA KLAGGVAVIK VGAATEVEMK EKKARVEDAL HATRAAVEEG VVAGGGVALIRVASKLADLR GQNEQNVGI KVALRAMEAP LRQIVLNCGE EPSVVANTVK GGDGNYGYNAATEEYGNMID MGILDPTKVT RSALQYAASV AGLMITTECM VTDLPKNDA DLGAAGGMGG MGGMGGMM.		
Formulation	The groEL protein contains 25mM Tris buffer (pH 7.5), 100mM NaCl, 5mM DTT and 10% Glycerol.		

Introduction

GroEL protein is the major heat shock protein of E.coli and belongs to the chaperonin (HSP60) family. GroEL protein prevents misfolding of proteins and promotes the refolding and proper assembly of unfolded polypeptides generated under stress condition.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

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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 GroEL produced in E.Coli is a single, non-glycosylated polypeptide chain containing 548 amino acids (1-548) and having a molecular mass of 57.3kDa. GroEL is purified by proprietary chromatographic techniques.

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