

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant GroEL (HSP60)

Catalog No.
228-10579

Source:
Escherichia Coli.

Synonyms

CPN60, GROEL, HSP60, HSP65, SPG13, CHA60, GROL, crpA, mopA, 60 kDa chaperonin, Protein Cpn60, groEL protein, b4143, JW4103.

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. GroEL gene was amplified by PCR from E.coli and cloned into an expression vector. This protein was overexpressed in E.coli and was purified by using conventional chromatography techniques.

Description

Recombinant GroEL produced in E.Coli is a single, non-glycosylated polypeptide chain containing 548 amino acids and having a molecular mass of 57.3kDa.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The groEL protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 1mM DTT and 10% Glycerol.

Purity

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

Stability

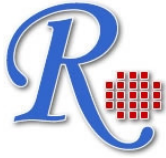
Store at 4°C if entire vial will be used within 2-4 weeks.

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).

Please prevent freeze-thaw cycles.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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Amino acid sequence

MAAKDVKFGN DARVKMLRGV NVLADAVKVT LGPKGRNVVL DKSFGAPTIT
KDGVSVAREIELEDKFENMG AQMVKEVASK ANDAAGDGTT TATVLAQAI
TEGLKAVAAG MNPMDLKRIGDKAVTAAVEE LKALSVPCSD SKAIAQVGTI
SANSDETVGK LIAEAMDKVG KEGVITVEDGTGLQDELDDVV EGMQFDRGYL
SPYFINKPET GAVELESPFI LLADKKISNI REPLPVLEAVAKAGKPLLI
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.

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