

GroEL, E.coli, Recombinant, expressed in E.coli

Cat.NO.: TP02334

3th Edition

Synonyms: 60 kDa chaperonin, Protein Cpn60, groL, mopA

Description: 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.

Form: Liquid. In 25 mM Tris buffer (pH 7.5) containing 100 mM NaCl, 5 mM DTT, 10% glycerol

Molecular Weight: 57.3kDa (548aa), confirmed by MALDI-TOF

Sequences:

MAAKDVKFGNDARVKMLRGVNVLADAVKVTLGPKGRNVVLDKSFSGAPTITKDGVSVAREIELEDKFENMGAQMVK
EVASKANDAAGDGTATVLAQAITEGLKAVAAGMNPMDLKRIGDKAVTAAVEELKALSVPCSDSKAIAQVGTISAN
SDETVGKLIAEAMDKVGKEGVITVEDGTGLQDELDDVVEGMQFDRGYLSPYFINKPETGAVELESPFILLADKKISNIR
EMLPVLEAVAKAGKPLLI AEDVEGEALATLVVNTMRGIVKVA AVKAPGFGDRRKAMLQDIATLTGGTVISEEIGMEL
EKATLEDLGQAKRVVINKDTTIIIDGVGEEAAIQGRVAQIRQQIEEATSDYDREKLQERVAKLGGVAVIKVGAATEV
EMKEKKARVEDALHATRAAVEEGVVAGGGVALIRVASKLADLRGQNEQNVGKVALRAMEAPLRQIVLNCGEEPS
VVANTVKGGDGNYGNAATEEYGNMIDMGILDPTKVTRSALQYAASVAGLMITTECMVTDLPKND AADLGAAGGM
GGMGGMGGMM

Purity: > 95% by HPLC

Concentration: 1 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.