

GroES, E.coli, Recombinant, expressed in E.coli

Cat.NO.: TP02335

3th Edition

Synonyms: 10 kDa chaperonin, Protein Cpn10, groS, mopB

Description: GroES protein is the co-chaperonin of GroEL in E.coli and assists protein folding. GroEL mediated folding requires the co-chaperonin GroES which is essential for viability. GroES is composed of a single heptameric ring of 10kDa subunits that binds to the ends of the GroEL cylinder. GroES 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: 10.4kDa (97aa), confirmed by MALDI-TOF

Sequences:

MNIRPLHDRVIVKRKEVETKSAGGIVLTGSAAAKSTRGEVLAVGNRILENGEVKPLDVKVGDIVIFNDGYGVKSEKI
DNEEVLIMSESDILAIVEA

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.