

GrpE, E.coli, Recombinant, E.coli

Cat.NO.: TP02339

3th Edition

Synonyms:HSP-70 cofactor, Heat shock protein B25.3, HSP24

Description:GrpE, co-chaperone of E.coli, participates actively in the response to hyperosmotic and heat shock by preventing the aggregation of stress-denatured proteins in association with DnaK. This protein is the nucleotide exchange factor for DnaK and may function as a thermosensor. Several rounds of ATP-dependent interactions between DnaJ, Dna K and GrpE are required for fully efficient folding.

Form:Liquid. In 20 mM Tris buffer (pH 8.0) containing 100 mM NaCl,

Molecular Weight:21.8kDa (197aa), confirmed by MALDI-TOF

Sequences:

MSSKEQKTPEGQAPEEIIIMDQHEEIEAVEPEASAEQVDPRDEKIANLEAQLAEAQTRERDGLRVKAEMENLRRRTE
LDIEKAHKFALEKFINELLPVIDSLDRALEVADKANPDMSAMVEGIELTLKSMLDVVRKFGVEVIAETNVPLDPNVHQA
IAMVESDDVAPGNVLGIMQKGYTLNGRTIRAAMVTVAKAKA

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.