

**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.