

## Recombinant E.coli GrpE Heat Shock Protein

Cat. No. GrpE-324E Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant GrpE protein was overexpressed in E.coli and purified by using the conventional column chromatography techniques (197 aa, 21.8 kDa).
<b>Species</b>	E.coli
<b>Source</b>	E.coli
<b>Description</b>	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.
<b>Formulation</b>	Liquid. In 20 mM Tris buffer (pH 8.0) containing 100 mM NaCl.
<b>Molecular Weight</b>	21.8 kDa (197aa).
<b>Purity</b>	> 90% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Sequence</b>	MSSKEQKTPE GQAPEEIID QHEEIEAVEP EASAEQVDPR DEKIANLEAQ LAEAQTRERD GILRVKAEME NLRRRTELDI EKAHKFALEK FINELLPVID SLDRALEVAD KANPDMSAMV EGIELTLKSM LDVVRKFGVE VIAETNVPLD PNVHQAIAMV ESDDVAPGNV LGIMQKGYTL NGRTIRAAMV TVAKAKA

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**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.

**GENE INFORMATION**

**Gene Name**

grpE

**Synonyms**

grpE; grpE heat shock protein; ECK2610; JW2594; heat shock protein; phage lambda replication; host DNA synthesis; heat shock protein; protein repair.

**Gene ID**


947097

**Protein Refseq**

NP\_417104.1

**UniProt ID**

P09372

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