

Recombinant E.coli GrpE Heat Shock Protein

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

SPECIFICATION

Product Overview	Recombinant GrpE protein was overexpressed in E.coli and purified by using the conventional column chromatography techniques (197 aa, 21.8 kDa).
Species	E.coli
Source	E.coli
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.
Formulation	Liquid. In 20 mM Tris buffer (pH 8.0) containing 100 mM NaCl.
Molecular Weight	21.8 kDa (197aa).
Purity	> 90% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MSSKEQKTPE GQAPEEIMD 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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