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# Recombinant e.coli GrpE protein (V44I)

Catalog Number: GRP0701

# **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-197aa

#### **UniProt No.**

P09372

#### **NCBI Accession No.**

NP 417104.1

#### **Alternative Names**

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

# **PRODUCT SPECIFICATION**

# **Molecular Weight**

21.8 kDa (197aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl

#### **Purity**

> 90% by SDS-PAGE

#### Tag

Non-Tagged

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

### **BACKGROUND**

### **Description**

GrpE, co-chaperone of E. coli, participates actively in the response to hyperosomotic 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. Recombinant GrpE protein was overexpressed in E. coli and purified by using the conventional column chromatography techniques.



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# **Amino acid Sequence**

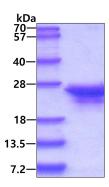
MSSKEQKTPE GQAPEEIIMD QHEEIEAVEP EASAEQVDPR DEKIANLEAQ LAEAQTRERD GILRVKAEME NLRRRTELDI EKAHKFALEK FINELLPVID SLDRALEVAD KANPDMSAMV EGIELTLKSM LDVVRKFGVE VIAETNVPLD PNVHQAIAMV ESDDVAPGNV LGIMQKGYTL NGRTIRAAMV TVAKAKA

# **General References**

Lipinska B, King J, Ang D, Georgopoulos C (1988). Nucleic Acids Res.16: 545-7562 Liberek K., Marszzalek J., Ang D, Georgopoulos C., Zylicz M. (1991). Proc. Natl. Acad.Sci. u.S.A. 88: 2874-2878.

# **DATA**

## **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

