

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 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. Recombinant GrpE protein was overexpressed in E. coli and purified by using the conventional column chromatography techniques.

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Amino acid Sequence

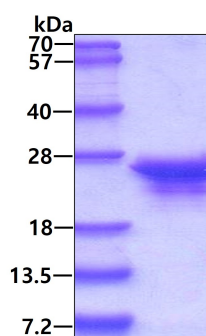
MSSKEQKTPE GQAPEEIIIMD QHEEIEAVEP EASAEQVDPR DEKIANLEAQ LAEAQTRERD GILRVKAEME NLRRRTELDI
EKAHKFALEK FINELLPVID SLDRALEVAD KANPDMSAMV EGIELTLKSM LDVVRKFGVE VIAETNVPLD PNVHQAIAMV
ESDDVAPGNV LGIMQKGYTL NGR TIRAAMV TVAKAKA

General References

Lipinska B, King J, Ang D, Georgopoulos C (1988). Nucleic Acids Res.16: 545-7562
Liberek K., Marszalek 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.