



Product Datasheet

Product Name	HSP-70 Cofactor (HSP24) E.Coli Recombinant
Cata No	CB500764
Source	<i>Escherichia Coli</i> .
Synonyms	HSP24, HSPB25.3, HSP-70 Cofactor, Protein grpE, Heat shock protein B25.3, grpE, b2614, JW2594.

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, DnaK and GrpE are required for fully efficient folding. GrpE Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 197 amino acids and having a molecular mass of 21.8 kDa.

The GrpE is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 90.0% as determined by:

(a) Analysis by RP-HPLC.

(b) Analysis by SDS-PAGE.

Formulation

The HSP24 protein solution contains 20mM Tris-HCl pH-8 and 0.1M NaCl.

Stability

GrpE although stable 4°C for 4 weeks, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Please prevent freeze-thaw cycles.

Sequence

MSSKEQKTPE GQAP EEIIMD QHEEIEAVEP
EASAEQVDPR DEKIANLEAQ LAEAQTRERD
GILRVKAEME NLRRRTELDI EKAHKFALEK
FINELLPVID SLDRALVAD KANPDM SAMV
EGIELTLKSM LDVVRKFGVE VIAETNVPLD
PNVHQAIAMV ESDDVAPGNV LGIMQKGYTL
NGRTIRAAMV TVAKAKA.