



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet

Recombinant *E. Coli* Heat Shock Protein Cofactor 70 (HSP24)

Catalog No.
228-10582

Source:
Escherichia coli

Synonyms:

HSP24, HSPB25.3, HSP-70 Cofactor, Protein grpE, Heat shock protein B25.3, grpE, b2614, JW2594.

Introduction:

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.

Description:

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.

Source:

Escherichia Coli.

Physical Appearance:

Sterile Filtered colorless solution.

Formulation:

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

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



RayBiotech, Inc.

3607 Parkway Lane suite 200
Norcross, GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Amino Acid Sequence:

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

Purity:

Greater than 90.0% as determined by:

- (a) Analysis by RP-HPLC.
- (b) Analysis by SDS-PAGE.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**