



Product Datasheet

Product Name	DnaK (HSP70) E.Coli Recombinant
Cata No	CB500756
Source	<i>Escherichia Coli.</i>
Synonyms	HSP-70, HSP70, DnaK, , Chaperone protein dnaK, Heat shock protein 70, Heat shock 70 kDa protein, groP, grpF, seg, b0014, JW0013.

Description

DnaK, originally identified for its DNA replication by bacteriophage I in E. coli is the bacterial HSP70 chaperone. This protein is involved in the folding and assembly of newly synthesized polypeptide chains and in preventing the aggregation of stress-denatured proteins.

Recombinant DnaK produced in E.Coli is a single, non-glycosylated polypeptide chain containing 638 amino acids and having a molecular mass of 69 kDa.

Physical Appearance

Sterile filtered colorless solution.

Purity

Greater than 95.0% as determined by:

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

Formulation

The DnaK protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 5mM DTT and 10% Glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time.

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

Avoid multiple freeze-thaw cycles.

Sequence

MGKIIGIDLG TTNSCVAIMD GTTPRVLENA
EGDRTPSII AYTQDGETLV
GQPAKRQAVTNPQNTLFAIK RLIGRRFQDE
EVQRDVSIMP FKIIAADNGD AWVEVKGQKM
APPQISAEVLKMKKTAEDY LGEPVTEAVI
TVPAYFNDAQ RQATKDAGRI
AGLEVKRIINEPTAAALAYGLDKGTGNRTI
AVYDLGGGTFDISIIEIDEV DGEKTFEVLA
TNGDTHLGGE DFDSRLINYLVEEFKKDQGI
DLRNDPLAMQ RLKEAAEKAK IELSSAQQTD
VNLPLYTADA TGPKHMNIKVTRAKLESLVE
DLVNRSIEPL KVALQDAGLS VSDIDDVILV
GGQTRMPMVQ KKVAEFFGKEPRKDVNPDEA
VAIGAAVQGG VLTGDVKDVL LLDVTPLSLG
IETMGGVMTT LIAKNNTIPTKHSQVFSTAE
DNQSAVTIHV LQGERKRAAD NKSLGQFNLD
GINPAPRGMPQIEVTFDIDADGILHVSADK
KNSGKEQKITIKASSGLNED EIQKMVRDAE
ANAEADRFKE ELVQTRNQGDLHLLHSTRKQV
EEAGDKLPAD DKTAIESALT ALETALKGED
KAAIEAKMQE LAQVSQKLMEIAQQQHAQQQ
TAGADASANN AKDDDVVDAE FEEVKDKK