
Product Data Sheet

Product Name: DnaK E.coli

Cat. No.: GP25073

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HSP-70; HSP70; DnaK; ; Chaperone protein dnaK; Heat shock protein 70; Heat shock 70 kDa protein; groP; grpF; seg; b0014; JW0013.		
Amino Acid Sequence	<p>MGKIIIGIDLG TTNSCVAIMD GTTPRVLENA EGDRTTPSII AYTQDGETLV GQPAKRQAVTNPQNTLFAIK RLIGRRFQDE EVQRDVSIMP FKIIAADNGD AWVEVKGQKM APPQISAEVLKMKKTAEDY LGEPVTEAVI TVPAYFNDAQ RQATKDAGRI AGLEVKRIINEPTAAALAYGLDKGTGNRTI AVYDLGGGTFDISIIIEIDEV DGEKTFEVLA TNGDTHLGGE DFDSRLINYLVVEEFKQDQGI DLRNDPLAMQ RLKEAAEKAK IELSSAQQTD VNLPHYITADA TGPKHMNIKVTRAKLESLVE DLVNRSEIPL KVALQDAGLS VSDIDDVILV GGQTRMPMVQ KKVAEFFGKEPRKDVNPDEA VAIGAAVQGG VLTGDVKDVL LLDVTPLSLG IETMGGVMTT LIAKNTTIPTKHSQVFSTAE DNQSAVTIHV LQGERKRAAD NKSLGQFNLD GINPAPRGMPQIEVTFDIDADGILHVSADK KNSGKEQKITIKASSGLNED EIQKMVRDAE ANAEADRFKE ELVQTRNQG DHELLHSTRKQV EEAGDKLPAD DKTAIESALT ALETALRGED KAAIEAKMQE LAQVSQKLMEIAQQQHAQQQ TAGADASANN AKDDDVVDAE FEEVKDKK.</p>		
Formulation	The DnaK protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 5mM DTT and 10% Glycerol.		

Introduction

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.

Stability

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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.

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