

## Product datasheet for SA6024X

### dnaK / Hsp70 (full length) Escherichia coli Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	dnaK / Hsp70 (full length) e. coli protein, 0.5 mg
Species:	Escherichia coli
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MGKIIIGIDLG TTNSCVAIMD GTTPRVLENA EGDRTTPSII AYTQDGETLV GQPAKRQAVT NPQNTLFAIK RLIGRRFQDE EVQRDVSIMP FKIIAADNGD AWVEVKGQKM APPQISAEVL KKMKKAEDY LGEPVTEAVI TVPAYFNDAQ RQATKDAGRI AGLEVKRIIN EPTAAALAYG LDKGTGNRTI AVYDLGGGTF DISIIEIDEV DGEKTFEVLA TNGDTHLGGE DFDSRLINYL VEEFKKDQGI DLRNDPLAMQ RLKEAAEKAK IELSSAQQTD VNLPYITADA TGPKHMNIKV TRAKLESLVE DLVNRSIEPL KVALQDAGLS VSDIDDVILV GGQTRMPMVQ KKVAEFFGKE PRKDVNPDEA VAIGAAVQGG VLTGDVKDVL LLDVTPLSLG IETMGGVMTT LIAKNTTIPT KHSQVFSTAE DNQSAVTIHV LQGERKRAAD NKSLGQFNLD GINPAPRGMP QIEVTFDIDA DGILHVS AKD KNSGKEQKIT IKASSGLNED EIQKMVRDAE ANAEADRFKE ELVQTRNQGD HLLHSTRKQV EEAGDKLPAD DKTAIESALT ALETALKGED KAAIEAKMQE LAQVSQKLMIE IAQQQHAQQQ TAGADASANN AKDDDVVDAE FEEVKDKK
Predicted MW:	69 kDa
Concentration:	lot specific
Purity:	>95% by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 25 mM Tris-HCl, pH 7.5, 100 mM NaCl, 5 mM DTT, 10% Glycerol
Preparation:	Liquid purified protein
Protein Description:	DnaK (amino acids 1-638) was amplified by PCR and cloned into an E. coli expression vector. DnaK 1-638 was overexpressed in E. coli and was purified to apparent homogeneity by using conventional column chromatography techniques.
Storage:	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.



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**Summary:**

DnaK, originally identified for its DNA replication by bacteriophage  $\lambda$  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.

**Product images:**