

## Product datasheet for SA6025

### dnaK / Hsp70 (1-384) Escherichia coli Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	dnaK / Hsp70 (1-384) e. coli recombinant protein, 0.1 mg
<b>Species:</b>	Escherichia coli
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MGKIIIGIDLG TTNSCVAIMD GTTPRVLENA EGDRTTPSII AYTQDGETLV GQPAKRQAVT NPQNTLFAIK RLIGRRFQDE EVQRDVSIMP FKIIAADNGD AWVEVKGQKM APPQISAEVL KKMKKTAEDY LGPEVTEAVI TVPAYFNDAQ RQATKDAGRI AGLEVKRIIN EPTAAALAYG LDKGTGNRTI AVYDLGGGTF DISIIEIDEV DGEKTFEVLA TNGDTHLGGE DFDSRLINYL VEEFKKDQGI DLRNDPLAMQ RLKEAAEKAK IELSSAQQTD VNLPHYTADA TGPKHMNIKV TRAKLESLVE DLVNRSIEPL KVALQDAGLS VSDIDDVILV GGQTRMPMVQ KKVAEFFGKE PRKDVNPDEA VAIGAAVQGG VLTG
<b>Predicted MW:</b>	41.6 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% by SDS-PAGE
<b>Buffer:</b>	Presentation State: Purified State: Liquid purified protein Buffer System: 25 mM Tris-HCl, pH 7.5, 100 mM NaCl, 5 mM DTT, 10% Glycerol
<b>Preparation:</b>	Liquid purified protein
<b>Protein Description:</b>	DnaK (amino acids 1-384) is N-terminal ATPase domain and ATP bound to the ATPase domain induces a conformational change in the substrate binding domain (residues 385-638). The protein coding region of the ATPase domain of DnaK (amino acids 1-384) was amplified by PCR and cloned into an E. coli expression vector. The ATPase domain of DnaK was overexpressed in E. coli and the recombinant protein was purified to apparent homogeneity by using conventional column chromatography techniques.
<b>Storage:</b>	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Summary:</b>	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.



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**Product images:**

