

## Product datasheet for SA6027X

### dnaK / Hsp70 (508-638) Escherichia coli Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	dnaK / Hsp70 (508-638) e. coli protein, 0.5 mg
Species:	Escherichia coli
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MNEDEIQKMV RDAEANA EAD RKFEELVQTR NQGDHLLHST RKQVEEAGDK LPADDKTAIE SALTALETAL KGEDKAAIEA KMQELAQVSQ KLMEIAQQQH AQQQTAGADA SANNAKDDDDV VDAEFEEVKD KK
Predicted MW:	14.6 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, 1 mM DTT, 10% Glycerol
Preparation:	Liquid purified protein
Protein Description:	DnaK (residues 508-638) of the substrate binding domain is $\alpha$ -helical and appears to act as a lid covering the substrate binding cleft. DnaK (amino acid 508-638) was overexpressed in E. coli and purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid (Met) is attached at N-terminus.
Storage:	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
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.



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**Product images:**

