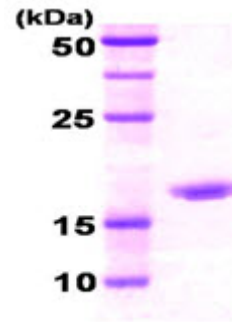
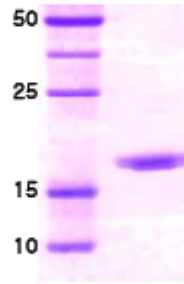


**SA6027X****Recombinant DnaK (amino acids 508-638)**

<b>Alternate names:</b>	Chaperone protein dnaK, Heat shock 70 kDa protein, Heat shock protein 70, MT0365, MTCY13E10.10, Rv0350
<b>Quantity:</b>	0.5 mg
<b>Concentration:</b>	1.0 mg/ml
<b>Background:</b>	DnaK, originally identified for its DNA replication by bacteriophage $\lambda$ in <i>E. coli</i> 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.
<b>Uniprot ID:</b>	<a href="#">P0A6Y8</a>
<b>NCBI:</b>	<a href="#">AP_000678.1</a>
<b>GeneID:</b>	<a href="#">944750</a>
<b>Species:</b>	<i>E. coli</i>
<b>Source:</b>	<i>E. coli</i>
<b>Format:</b>	<b>State:</b> Liquid purified protein <b>Purity:</b> >95% by SDS-PAGE <b>Buffer System:</b> 25 mM Tris-HCl, pH 7.5, 100 mM NaCl, 1 mM DTT, 10% Glycerol
<b>Description:</b>	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 <i>E. coli</i> and purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid (Met) is attached at N-terminus. <b>AA Sequence:</b> MNEDEIQKMV RDAEANA EAD RKFEELVQTR NQGDHLLHST RKQVEEAGDK LPADDKTAIE SALTALETAL KGEDKAAIEA KMQELAQVSQ KLMEIAQQQH AQQQTAGADA SANNAKDDDV VDAEFEEVKD KK <b>Molecular weight:</b> 14.6 kDa (132 amino acids)
<b>Storage:</b>	Store (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
<b>General Readings:</b>	Zhu et al., (1996) <i>Science</i> 272, 1606-1614. Naoki Tanaka., et al (2002) <i>PNAS</i> 26(99)15398-15403.

**Pictures:**

Recombinant Dna K (amino acids 508-638): 14% SDS-PAGE



14% SDS-PAGE (3ug)