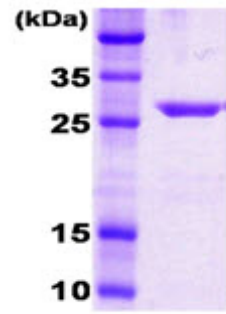


SA6026X**Recombinant DnaK (amino acids 385-638)**

| | |
|--------------------------|---|
| Alternate names: | Chaperone protein dnaK, Heat shock 70 kDa protein, Heat shock protein 70, MT0365, MTCY13E10.10, Rv0350 |
| Quantity: | 0.5 mg |
| Concentration: | 1.0 mg/ml |
| Background: | DnaK, originally identified for its DNA replication by bacteriophage λ 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. |
| Uniprot ID: | P0A6Y8 |
| NCBI: | AP_000678.1 |
| GeneID: | 944750 |
| Species: | <i>E. coli</i> |
| Source: | <i>E. coli</i> |
| Format: | State: Liquid purified protein Purity: >95% by SDS-PAGE Buffer System: 25 mM Tris-HCl, pH 7.5, 100 mM NaCl, 5 mM DTT, 10% Glycerol |
| Description: | The protein coding region of the substrate binding domain of DNAK (amino acids 385-638) was amplified by PCR and cloned into an <i>E. coli</i> expression vector. The substrate binding domain of DNAK was overexpressed in <i>E. coli</i> and the recombinant protein was purified to apparent homogeneity by using conventional column chromatography techniques. Additional amino acid (Met) is attached at N-terminus. AA Sequence: MDVKDVLILLD VTPLSLGIET MGGVMTTLIA KNTTIPTKHS QVFSTAEDNQ SAVTIHVLQG ERKRAADNKS LGQFNLDGIN PAPRGMPQIE VTFDIDADGI LHVSAKDKNK GKEQKITIKA SSGLNEDEIQ KMVRDAEANA EADRKFEELV QTRNQGDHLL HSTRKQVEEA GDKLPADDKT AIESALTALE TALKGEDKAA IEAKMQELAQ VSQKLMEIAQ QQHAQQQTAG ADASANNAKD DDVVDAEFEE VKDKK Molecular weight: 27.7 kDa (255 amino acids) |
| Storage: | Store (in aliquots) at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch. |
| General Readings: | Zhu et al., (1996) <i>Science</i> 272, 1606-1614. Naoki Tanaka., et al (2002) <i>PNAS</i> 26(99)15398-15403. |

Pictures:



14% SDS-PAGE (3ug)

Recombinant Dna K (amino acids 385-638): 14% SDS-PAGE

