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**Product Data Sheet**

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Product Name: DnaK Mycobacterium Tuberculosis  
Cat. No.: GP25074  
Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HSP-70; HSP70; DnaK; Chaperone protein dnaK; Heat shock protein 70; Heat shock 70 kDa protein; HSP70; 70 kDa antigen; ML2496.		
Solubility	It is recommended to reconstitute the lyophilized DnaK in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The DnaK protein was lyophilized from a concentrated (1mg/ml) solution containing 10mM Na-phosphate buffer pH 7.4, 130mM NaCl and 2.5mM KCl.		

**Introduction**

DnaK, originally identified for its DNA replication by bacteriophage I 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.

**Stability**

Lyophilized DnaK although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution DnaK should be stored at 4°C between 2-7 days and for future use below -18°C .For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

**Background**

Recombinant Mycobacterium Tuberculosis Dnak produced in E.Coli is a single, non-glycosylated polypeptide chain containing 625 amino acids and having a molecular mass of 66.7 kDa.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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