

# Recombinant Mycobacterium Tuberculosis Molecular Chaperone DnaK

**Cat. No.** DnaK-1257H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant Mycobacterium Tuberculosis DnaK produced in <i>E. Coli</i> is a single, non-glycosylated polypeptide chain containing 625 amino acids and having a molecular mass of 66.7 kDa.
<b>Species</b>	Mycobacterium Tuberculosis
<b>Source</b>	E.coli
<b>Description</b>	DnaK, originally identified for its DNA replication by bacteriophage I 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>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Formulation</b>	The DnaK protein was lyophilized from a concentrated (1mg/ml) solution containing 10mM sodium phosphate buffer pH 7.4, 130mM sodium chloride and 2.5mM KCl.
<b>Solubility</b>	It is recommended to reconstitute the lyophilized DnaK in sterile 18MΩ-cm H <sub>2</sub> O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

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**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.

**Pathways**

RNA degradation

**GENE INFORMATION****Gene Name**

dnaK molecular chaperone DnaK [ *Mycobacterium tuberculosis* H37Rv ]

**Synonyms**

Rv0350; molecular chaperone DnaK

**Gene ID**

885946

**Protein Refseq**

NP\_214864

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