

Recombinant Mycobacterium Tuberculosis Molecular Chaperone DnaK

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

SPECIFICATION

Product Overview	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.
Species	Mycobacterium Tuberculosis
Source	E.coli
Description	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.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	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.
Solubility	It is recommended to reconstitute the lyophilized DnaK in sterile 18MΩ-cm H ₂ 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.
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Pathways	RNA degradation
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GENE INFORMATION

Gene Name	dnaK molecular chaperone DnaK [Mycobacterium tuberculosis H37Rv]
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Synonyms	Rv0350; molecular chaperone DnaK
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Gene ID	885946
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Protein Refseq	NP_214864
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