



Product Datasheet

| | |
|---------------------|---|
| Product Name | DnaK (HSP70) Mycobacterium Tuberculosis Recombinant |
| Cata No | CB500769 |
| Source | Escherichia Coli |
| Synonyms | HSP-70, HSP70, DnaK |

Description

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. Recombinant 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

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.

Solubility

It is recommended to reconstitute the lyophilized DnaK in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Storage

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. Avoid multiple freeze-thaw cycles For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

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.

*** For Non-Clinical Research Use Only ***