

## DnaK E.coli

**Description:** Recombinant DnaK produced in E.Coli is a single, non-glycosylated polypeptide chain containing 638 amino acids and having a molecular mass of 69 kDa.

**Catalog #:** HYPS-013

**Synonyms:** HSP-70, HSP70, DnaK, , Chaperone protein dnaK, Heat shock protein 70, Heat shock 70 kDa protein, groP, grpF, seg, b0014, JW0013.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MGKIIGIDLG TTNSCVAIMD GTTPRVLENA EGDRTTSPSII  
AYTQDGETLV GQPAKRQAVTNPQNTLFAIK RLIGRRFQDE EVQRDVSIMP FKIIAADNGD  
AWVEVKGQKM APPQISAEVLKMKKTAEDY LGPEVTEAVI TVPAYFNDAQ RQATKDGRI  
AGLEVKRIINEPTAAALAYGLDKGTGNRTI AVYDLGGGTFDISIIEIDEV DGEKTFEVLA  
TNGDTHLGGE DFDSRLI

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The DnaK protein contains 25mM Tris-HCl buffer (pH 7.5), 100mM NaCl, 5mM DTT and 10% Glycerol.

### Stability:

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

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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