

## Recombinant Human DnaK (Hsp70), His

### ORDERING INFORMATION

Catalog Number	Size
11116P-10	10ug
11116P-50	50ug
11116P-1000	1000ug

**Formulation:** Sterile-filtered colorless solution contains 20mM Tris, pH 7.5, and 2mM DTT having a protein concentration of 1mg/ml. Purified by proprietary chromatographic techniques.

### BACKGROUND

Hsp70 plays an important role in protein folding and in protecting cells from stress. In most species there are many proteins that belong to the Hsp70 family. Some are expressed only under stress conditions while others are present in cells under normal conditions and are not heat-inducible.

### DESCRIPTION

Recombinant Human DnaK (Hsp70) produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 661 amino acids fused to His-tag at the N-terminus with a total molecular weight of 72.2kDa.

### SPECIFICATION SUMMARY

**Source:** *Escherichia coli*

**Purity:** Greater than 95% as determined by SDS-PAGE and RP-HPLC.

**Accession number:** P08107

### **Amino Acid Sequence:**

**MGSSHHHHHH SSSLVPRGSH** MAKAAAIGID  
LGTTYSCVGV FQH GKVEIIA  
NDQGNRTTPSYVAFTDTERL IGDAAKNQVA  
LNPQNTVFDA KRLIGRKFGD PVVQSDMKHW  
PFQVINDGDKPKVQVSYKGD TKAFYPEEIS  
SMVLTKMKEI AEAYLGYPT NAVITVPAYF  
NDSQRQATKDAGVIAGLNVL RIINEPTAAA  
IAYGLDRTGK GERNVLIFDL GGGTFDVSIL  
TIDDGIFEVKATAGDTHLGG EDFDNRLVNH  
FVEEFKRKHK KDISQNKRAV RRLRTACERA  
KRTLSSSTQA SLEIDSLFEG IDFYTSITRA  
RFEELCSDLF RSTLEPVEKA LRDAKLDKAQ  
IHDLVLVGGS TRIPKVQKLL QDFNGRDLN  
KSINPDEAVA YGAAVQAAIL MGDKSENVQD  
LLLLDVAPLSLGLTAGGVM TALIKRNSTI  
PTKQTQIFTT YSDNQPGVLI QVYEGERAMT  
KDNLLGRFELSGIPPAPRG VPQIEVTFDI  
DANGILNVTA TDKSTGKANK ITITNDKGR  
L SKEEIERMVQEAKEYKAEDE VQRERVSANK  
ALESYAFNMK SAVEDEGLKG KISEADKKKV  
LDKCQEVIW LDANTLAEKD EFEHKRKELE  
QVCNPIISGL YQGAGGPGPG GFGAQQGPKGG  
SGSGPTIEEVD

### STORAGE AND STABILITY

Although stable at 4°C for 4 weeks, product should be stored at or below -20°C. For long term storage, addition of a carrier protein (0.1% HSA or BSA) is recommended.

*For in vitro investigational use only. Not for use in therapeutic or diagnostic procedures.*