

## 32-5305: Recombinant Human Dnak (HSP70), His Tag

**Alternative** Heat shock 70 kDa protein,heat shock 70kDa protein

**Name :** 1A,HSP70.1,HSP70-1/HSP70-2,HSPA1A,HSPA1,HSPA1B,HSP72,HSP70I,HSP70-1,FLJ54303,FLJ54370,FLJ54392,FLJ54408,FLJ75127,HSP70-1A.

### Description

Source : Escherichia Coli. HSP 70kDa produced in E.Coli is a single, non-glycosylated polypeptide chain (1-641 a.a.) containing 661 amino acids fused to a 20 a.a. His-tag at N-terminus and having a total Mw of 72.2 kDa. HSP70 is a human heat shock protein. HSP-70 is an important part of the cell's machinery for protein folding, and help to protect cells from stress. In most species, there are many proteins that belong to the HSP70 family. Some of these are only expressed under stress conditions, while some are present in cells under normal growth conditions and are not heat-inducible. They can be found in different cellular compartments (nuclear, cytosolic, mitochondrial, endoplasmic reticulum, etc...).

### Product Info

**Amount :** 50 µg

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

**Content :** The Heat Shock Protein 70kDa contains 20mM Tris-HCl pH7.5 and 2mM DTT at a concentration of 1mg/ml.

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SGLVPRGSH MAKAAAIGID LGTTYSCVGV FQH GKVEIIA  
NDQGNRTTPSYVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD PVVQSDMKHW  
PFQVINDGDKPKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPT NAVITVPAYF  
NDSQRQATKDAGVIAGLNLV RIINEPTAAA IAYGLDRTGK GERNVLIFDL GGTDFDVSIL  
TIDDGIFEVKATAGDTHLGG EDFDNRLVNH FVEEFKRKHK KDISQNKRAV RRLRTACERA  
KRTLSSSTQA SLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA LRDAKLDKAQ  
IHDLVLVGGG TRIPKVQKLL QDFFNGRDLN KSINPDEAVA YGAAVQAAIL MGDKSENVQD  
LLLLDVAPLSLGLTAGGVM TALIKRNSTI PTKQTQIFTT YSDNQPGVLI QVYEGERAMT  
KDNLLGRFELSGIPPAPRG VPQIEVTFDI DANGILNVTA TDKSTGKANK ITITNDKGR  
SKEEIERMVQEAKEYKAEDE VQRERVSANK ALESYAFNMK SAVEDEGLKG KISEADKKKV  
LDKCQEVISW LDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG GFQAQGPCKG  
SGSGPTIEVD.

