
Product Data Sheet

Product Name: DnaK Human, His

Cat. No.: GP25076

Batch No.: 1

Product Data

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|---------------------|---|--------------------|-------------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Heat shock 70 kDa protein; heat shock 70kDa protein 1A; HSP70.1; HSP70-1/HSP70-2; HSPA1A; HSPA1; HSPA1B; HSP72; HSP70I; HSP70-1; FLJ54303; FLJ54370; FLJ54392; FLJ54408; FLJ75127; HSP70-1A. | | |
| Amino Acid Sequence | <p>MGSSHHHHHH SGLVPRGSH MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPSYVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFQD PVVQSDMKHW PFQVINDGDKPKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPVT NAVITVPAYF NDSQRQATKDAGVIAGLNLV RIINEPTAAA IAYGLDRTGK GERNVLIFDL GGGTFDVSIL 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 ITITNDKGRL SKEEIERMVQEAKEYKAEDE VQRERVSAN ALESYAFNMK SAVEDEGLKG KISEADKKKV LDKCQEVIW LDANTLAEKD EFEHKRKELE QVCNPIISGL YQGAGGPGPG GFGAQGPKGG SGSGPTIEEVD.</p> | | |
| Formulation | The Heat Shock Protein 70kDa contains 20mM Tris-HCl pH7.5 and 2mM DTT at a concentration of 1mg/ml. | | |

Introduction

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

Caution: Product has not been fully validated for medical applications. For research use only.

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conditions and are not heat-inducible. They can be found in different cellular compartments (nuclear, cytosolic, mitochondrial, endoplasmic reticulum, etc...).

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.

Background

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.

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