

California Bioscience

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Product Datasheet

Product Name	DnaK Human Recombinant, His Tag
Cata No	CB500772
Source	Escherichia Coli.
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.

Description

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...). HSP 70kD produced in E.Coli is a single,non-glycosylated polypeptide chain containing 661 amino acids fused to His-tag at N-terminus and having a total Mw of 72.2 kDa.

Physical Appearance

Sterile Filtered colorless solution.

Purity

Greater than 95.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Formulation

The Heat Shock Protein 70kD contains 20mM Tris pH7.5 and 2mM DTT at a concentration of 1mg/ml. Heat Shock Protein 70kD although stable at 4° for 1 week, should be stored desiccated below -18°C.

For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Sequence

MGSSHHHHHH SSGLVPRGSH MAKAAAIGID LGTTYSCVGV FQHGKVEIIA NDQGNRTTPSYVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD PVVQSDMKHW PFQVINDGDKPKVQVSYKGD TKAFYPEEIS SMVLTKMKEI AEAYLGYPVT NAVITVPAYF NDSQRQATKDAGVIAGLNVL RIINEPTAAA IAYGLDRTGK GERNVLIFDL GGGTFDVSIL TIDDGIFEVKATAGDTHLGG EDFDNRLVNH FVEEFKRKHK KDISQNKRAV RRLRTACERA KRTLSSSTQA SLEIDSLFEG IDFYTSITRA RFEELCSDLF RSTLEPVEKA LRDAKLDKAQ IHDLVLVGGS TRIPKVQKLL QDFFNGRDLN KSINPDEAVA YGAAVQAAIL MGDKSENVQD LLLLDVAPLSLGLETAGGVM TALIKRNSTI PTKQTQIFTT YSDNQPGVLI QVYEGERAMT KDNNLLGRFELSGIPPAPRG VPQIEVTFDI DANGILNVTA TDKSTGKANK ITITNDKGRL SKEEIERMVQEAEKYKAEDE VQRERVSAKN ALESYAFNMK SAVEDEGLKG KISEADKKKV **LDKCQEVISW** LDANTLAEKD EFEHKRKELE QVCNPIISGL

YQGAGGPGPG GFGAQGPKGG SGSGPTIEEVD

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