

## DnaK Human, His

**Description:** 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.

**Catalog #:** HYP5-177

For research use only.

**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.

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MAKAAAIGID LGTTYSCVGV  
FQHGKVEIIA NDQGNRTTPSYVAFTDTERL IGDAAKNQVA LNPQNTVFDA KRLIGRKFGD  
PVVQSDMKHW PFQVINDGDKPKVQVSYKGD TKAFYP EEIS SMVLTKMKEI AEAYLGYPVT  
NAVITVPAYF NDSQRQATKDAGVIAGLNLV RIINEPTAAA IAYGLDRTGK GERNVLIFDL  
GGGTFDVSIL TIDDG

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

### Formulation:

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

### 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:

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...).

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