
HSP70 (amino acids 1-641) Human, Recombinant, His- tagged, E.coli

Cat.NO.: TP02525

3th Edition

Synonyms:Heat shock 70 kDa protein 1, HSP70.1, HSP70-1/HSP70-2, HSPA1A, HSPA1, HSPA1B

Description:Hsp70 is a human heat shock protein. Hsp70 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.

Form:Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 2 mM DTT

Molecular Weight:72.2kDa (661aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMAKAAAIGIDLGTTYSCVGVFQHGKVEIANDQGNRTTPSYVAFTDTERLIGDAAK
NQVALNPQNTVFDKRLIGRKFQDPVVQSDMKHWPVQVINDGDKPKVQVSYKGDTKAFYPEEISSMVLTKMKEIAE
AYLGYPTNAVITVPAYFNDSQRQATKDAGVIAGLNLRIINEPTAAAIYGLDRTGKGERNVLIFDLGGGTFDVSILTI
DDGIFEVKATAGDTHLGGEDFDNRLVNHVVEEFKRKHKKDISQNKRAVRLRTACERAKRTLSSSTQASLEIDSLFE
GIDFYTSITRARFEELCSDLFRSTLEPVEKALRDAKLDKAQIHDLVLVGGSTRIPKVQKLLQDFFNGRDLNKSINPDEA
VAYGAAVQAAILMGDKSENVQDLLLDVAPLSLGLTAGGVMTALIKRNSTIPTKQTQIFTTYSDNQPGVLIQVYEGE
RAMTKDNNLLGRFELSGIPPAPRGVQIEVTFDIDANGILNVTATDKSTGKANKITITNDKGRLSKEEIERMVQEAKEY
KADEVQRERVSAKNALESYAFNMKSAVEDEGLKKGISEADKKKVLDKCQEVISWLDANTLAEKDEFEHKRKELEQ
VCNPIISGLYQGAGGPGPGGFGAQGPKGGSGSGPTIEEVD

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.