

HSP70

Cat. # K1300,K1301

Also Known as: HSPA1A; HSP72; HSPA1; HSP70I; HSP70-1; HSP70-1A

NCBI Reference: NM_005345

MW (no tag): 70 kDa Species: Human

Source: Bacterial recombinant

Tag: No

Stock Buffer: 20 mM Tris, 150 mM NaCl, 2 mM βME, 10% Glycerol

Concentration: See tube label

Quality Assurance: ~90% by SDS-PAGE

Description: HSP70 a critical chaperone protein that has a high affinity for unfolded polypeptide chains. It

binds extended peptide segments with a net hydrophobic character exposed by polypeptides

during translation and membrane translocation, or following stress-induced damage. In cooperation with other chaperones, Hsp70 stabilizes preexistent proteins against aggregation and mediates the folding of newly translated polypeptides in the cytosol as well as within organelles. Hsp70 and Hsp40 recruit some misfolded proteins to the ubiquitin E3 ligase CHIP

for ubiquitination.

Storage: Store at -80°C; avoid multiple freeze-thaw cycles

Note: N/A

Literature: 1. Walerych ., et al . (2009) Oncogene 28: 4284-94

2. Daugaard M, et al. (2007) FEBS Lett. 581: 3702-3710

3. Klucken J, et al. (2006) FASEB J. 20, 2050

4. Freeman BC, et al. (1995) EMBO J 14: 2281-22-92

