

HSP70B, 1-643aa, Human, His tag, E.coli

Cat.NO.: TP02526

3th Edition

Synonyms:Heat shock 70 kDa protein 6, HSPA6'

Description:HSP70B is a unique member of the human Hsp70 chaperone involved in cellular processes such as protein trafficking, folding, and prevention of aggregation. This protein is strictly stress-inducible, having little or no basal expression levels in most cells. HSP70B and Hsp72 are closely related and play cooperative roles in cell survival of proteotoxic stress. Recombinant human HSP70B, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

Form:Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 10% glycerol

Molecular Weight:73.2 kDa (663aa)

Sequences:

MGSSHHHHHSSGLVPRGSHMQAPRELAVGIDLGTTYSCVGVFQQGRVEILANDQGNRTTPSYVAFTDTERLVG
DAAKSQAALNPHNTVFDKRLIGRKFADTTVQSDMKHWPFRVSEGGKPKVRVCYRGEDKTFYEEISSMVL SKM
KETAEAYLGQPVKHAVITVPAYFNDSQRQATKDAGAIAGLNLRIINEPTAAAIAYGLDRRGAGERNVLIFDLGGGTF
DVSVLSIDAGVFEVKATAGDTHLGGEDFDNRLVNHFMEEFRRKHGKDLSGNKRALRRLRTACERAKRTLSSSTQA
TLEIDSLFEGVDFYTSITRARFEELCSDFRSTLEPVEKALRDAKLDKAQIHDVVLVGGSTRIPKVQKLLQDFNGKEL
NKSINPDEAVAYGAAVQAAVLMGDKCEKVQDLLLDVAPLSLGLTAGGVMTTLIQRNATIPTKQTQTFTTYSDNQP
GVFIQVYEGERAMTKDNLLGRFELSGIPPAPRGVPQIEVTFDIDANGILSVTATDRSTGKANKITITNDKGRLSKEEV
ERMVHEAEQYKAEDAQRDRVAAKNSLEAHVFHVKGSLQEESLRDKIPEEDRRKMQDKCREVLAWLEHNQLAEK
EEYEHQKRELEQICRPIFSRLYGGPGVPGSSCGTQARQGDPTGPIIEVD

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.