

Recombinant human HSP70B/HSPA6 protein

Catalog Number: ATGP0428

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-643aa

UniProt No.

P17066

NCBI Accession No.

NP_002146

Alternative Names

Heat shock 70 kDa protein 6, HSPA6', Heat shock 70 kDa protein 6 Heat shock 70 kDa protein B',

PRODUCT SPECIFICATION

Molecular Weight

73.2 kDa (663aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

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Amino acid Sequence

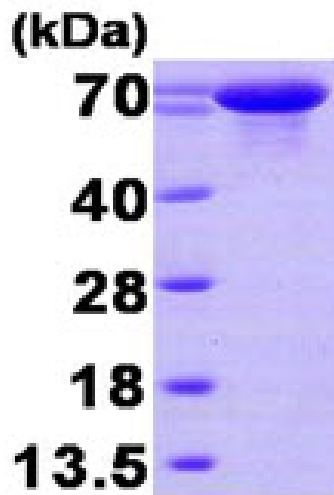
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VKHAVITVPA YFNDSQRQAT KDAGAIAGLN VLRIINEPTA AAIAYGLDRR GAGERNVLIF DLGGGTFDVS VLSIDAGVFE
VKATAGDTHL GGEDFDNRLV NHFMEEFRRK HGKDLSGNKR ALRRLRTACE RAKRTLSSST QATLEIDSLF EGVDFYTSIT
RARFEELCSD LFRSTLEPVE KALRDAKLDK AQIHDVVLVG GSTRIKPVQK LLQDFFNKE LNKSNPDEA VAYGAAVQAA
VLMGDKCEKV QDLLLLDVAP LSLGLETAGG VMTTLIQRNA TIPTKQTQTF TTYSDNQPGV FIQVYEGERA MTKDNNLLGR
FELSGIPPAP RGVPQIEVTF DIDANGILSV TATDRSTGKA NKITITNDKG RLSKEEVERM VHEAEQYKAE DEAQRDRVAA
KNSLEAHVFH VKGSLQEESL RDKIPEEDRR KMQDKCREVL AWLEHNQLAE KEEYEHQKRE LEQICRPIFS RLYGGPGVPG
GSSCGTQARQ GDPSTGPIIE EVD

General References

Noonan E., et al. (2008). *Exp Cell Res.* 314(13):2468-76.
Hightower LE., et al. (2007). *Cell Stress Chaperones.* 12(4):393-402.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)