

AR39144PU-L**Human HSPB3 (1-150, His-tag) - Purified****Alternate names:**

HSP27, HSPL27, Heat shock protein beta-3, Protein 3

Quantity:

0.5 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

HSPB3, also known as HSPL27, is a muscle-specific small heat shock protein. It is expressed preferentially in heart and skeletal muscle. Mammalian small heat shock proteins (sHSP) is a abundantly expressed proteins with diverse functions, including the assembly and sequestering of multi-protein complexes, transportation of nascent polypeptide chains across cellular membranes and regulation of protein folding. HSPB3 functions as an ATP-dependent chaperone protein that plays a role in the refolding of denatured proteins and may also Inhibitor of actin polymerization.

Uniprot ID:[Q12988](#)**NCBI:**[NP_006299](#)**GeneID:**[8988](#)**Species:**

Human

Source:

E. coli

Format:**State:** Liquid purified protein**Purity:** >85%**Buffer System:** 20mM Tris-HCl buffer (pH 8.0) containing 5% glycerol, 1M Urea**Description:**

Recombinant human HSPB3, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MAKIILRHLI EIPVRYQEEF EARGLEDCLL DHALYALPGP
TIVDLRKTRA AQSPPVDSAA ETPPREGKSH FQILLDVVQF LPEDIIIQTF EGWLLIKAQH
GTRMDEHGFI SRSFTRQYKL PDGVEIKDLS AVLCHDGILV VEVKDPVGTK

Molecular weight: 19.1 kDa (170 aa)**Storage:**

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Fontaine JM., et al. (2005) Biochem Biophys Res Commun. 337(3):1006-11.

Suqiyama Y., et al. (2000) J Biol Chem. 275(2):1095-104.

Pictures:

Recombinant human HSPB3, 1-150 aa,
His-tagged

