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## Product Data Sheet

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Product Name: HSPB3 Human

Cat. No.: GP25114

Batch No.: 1

**Product Data**

Purity &gt;98%

Source E.coli.

Physical  
Appearance solidShipping  
Condition Shipped with Ice Packs.

Synonyms Heat shock 27kDa protein 3; HSPL27; Protein 3; HSP 17; DHMN2C; HMN2C; heat shock protein beta-3; HspB3.

Amino Acid  
Sequence MGSSHHHHHH SGLVPRGSH MAKIILRHLLI EIPVRYQEEF EARGLEDCLL  
DHALYALPGP TIVDLRKTRA AQSPVDSAA ETPPREGKSH FQILLDVVQF  
LPEDIIIQTF EGWLLIKAQH GTRMDEHGFI SRSFTRQYKL PDGVEIKDLS  
AVLCHDGILV VEVKDPVGTK

Formulation The HSPB3 solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1M Urea and 5% glycerol.

**Introduction**

HSPB3 is a muscle-specific small heat shock protein which is expressed specially in heart and skeletal muscle. Mammalian small heat shock proteins (sHSP) are highly expressed proteins with varied roles, including the assembly and impounding of multi-protein complexes, transportation of nascent polypeptide chains thru cellular membranes and regulation of protein folding. HSPB3 perform as an ATP-dependent chaperone protein which takes part in the refolding of denatured proteins and inhibition of actin polymerization.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

HSPB3 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 170 amino acids (1-150) and having a molecular mass of 19.1 kDa. The

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSPB3 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

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