

Recombinant Human Heat Shock Protein, Alpha-crystallin-related, B6

Cat. No. HSPB6-1253H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Heat Shock Protein 20 was expressed in <i>E. Coli</i> .
Species	Human
Source	E.coli
Description	Hsp20 is a mammalian small heat-shock protein family that is found most copiously in skeletal muscle and heart. The heat-shock proteins seem to act as chaperones that can protect other proteins against heat-induced denaturation and aggregation. The Hsp20 family is characterized structurally by the presence of a conserved C-terminal domain of about 100 residues and contains a beta-sandwich fold consisting of 8 strands in 2 beta-sheets in a "Greek-key" topology. Hsp20 proteins have a tendency to form dimers, through a disulphide linkage formed by an N-terminal cysteine, low heat stability and a poor chaperoning ability in comparison with other family members.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	HSP20 lyophilized from 20mM Tris-acetate, pH-7.6, 10mM NaCl, 0.1mM EDTA, 0.1mM PMSF and 15mM β -mercaptoethanol.
Stability	HSP20 although stable at 10°C for 2 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or

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BSA). Please prevent freeze-thaw cycles.

**Immunological
Activity**

Immunoreactivity is confirmed by reaction with monoclonal mouse antibodies against HSP20.

GENE INFORMATION

Gene Name HSPB6 heat shock protein, alpha-crystallin-related, B6 [Homo sapiens]

Synonyms heat shock protein, alpha-crystallin-related, B6; Hsp20; FLJ32389; HSPB6b;HspB6;HSP20; Heat shock 20 kDa-like protein p20

Gene ID 126393

mRNA Refseq NM_144617

Protein Refseq NP_653218

MIM 610695

UniProt ID O14558

**Chromosome
Location** 19q13.12

Function protein binding

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