

Recombinant Human HSPB1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. HSPB1-5358H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	HSPB1 MS Standard C13 and N15-labeled recombinant protein (NP_001531) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the small heat shock protein (HSP20) family of proteins. In response to environmental stress, the encoded protein translocates from the cytoplasm to the nucleus and functions as a molecular chaperone that promotes the correct folding of other proteins. This protein plays an important role in the differentiation of a wide variety of cell types. Expression of this gene is correlated with poor clinical outcome in multiple human cancers, and the encoded protein may promote cancer cell proliferation and metastasis, while protecting cancer cells from apoptosis. Mutations in this gene have been identified in human patients with Charcot-Marie-Tooth disease and distal hereditary motor neuropathy.
Molecular Mass	22.8 kDa
AA Sequence	MTERRVPFLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGY VRPLPPAAIESPAVAAPAYSRALSRQLSSGVSEIRHTADRWRVSLDVNHFAPDELTV KTKDGVVEITGKHEERQDEHGYISRCFTRKYTLPPGVDPTQVSSSLSPEGLTVEAP MPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAKTRTRPLEQKLISEEDLAANDIL

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DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name HSPB1 heat shock 27kDa protein 1 [Homo sapiens (human)]

Official Symbol HSPB1

Synonyms HSPB1; heat shock 27kDa protein 1; heat shock 27kD protein 1; heat shock protein beta-1; Hs.76067; Hsp25; HSP27; HSP28; HSP 27; 28 kDa heat shock protein; heat shock 27 kDa protein; stress-responsive protein 27; estrogen-regulated 24 kDa protein; CMT2F; HMN2B; SRP27; HS.76067; DKFZp586P1322;

Gene ID 3315

mRNA Refseq NM_001540

Protein Refseq NP_001531

MIM 602195

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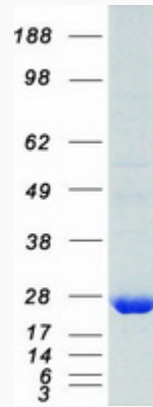
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UniProt ID

P04792

SDS-PAGE



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