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Product datasheet for PH301800

HSP27 (HSPB1) (NM_001540) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	HSPB1 MS Standard C13 and N15-labeled recombinant protein (NP_001531)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC201800
Predicted MW:	22.8 kDa
Protein Sequence:	>RC201800 protein sequence Red=Cloning site Green=Tags(s) MTERRVPFSLLRGPSWDPFRDWYPHSRLFDQAFGLPRLPEEWSQWLGGSSWPGYVRPLPPAAIESPAVAA PAYSRALSRQLSSGVSEIRHTADRWRVSLDVNHFAPDELTVKTKDGVVEITGKHEERQDEHGYISRCFTR KYTLPPGVDPTQVSSSLSPEGTLTVEAPMPKLATQSNEITIPVTFESRAQLGGPEAAKSDETAAK TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001531
RefSeq Size:	914
RefSeq ORF:	615
Synonyms:	CMT2F; HEL-S-102; HMN2B; HS.76067; Hsp25; HSP27; HSP28; SRP27
Locus ID:	3315
UniProt ID:	P04792, V9HW43

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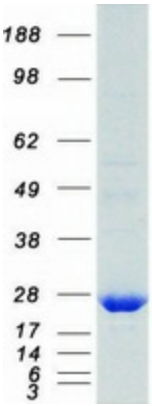
Cytogenetics: 7q11.23

Summary: 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. [provided by RefSeq, Aug 2017]

Protein Pathways: MAPK signaling pathway, VEGF signaling pathway

Product images:



Coomassie blue staining of purified HSPB1 protein (Cat# [TP301800]). The protein was produced from HEK293T cells transfected with HSPB1 cDNA clone (Cat# [RC201800]) using MegaTran 2.0 (Cat# [TT210002]).