

Recombinant Human HSPB8, His-tagged

Cat. No. HSPB8-27526TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Hsp22 (amino acids 1-196) containing an N-terminal His tag, 216 amino acids with a predicted MWt of 23.7 kDa including tag.
Species	Human
Source	E.coli
ProteinLength	196 amino acids
Description	The protein encoded by this gene belongs to the superfamily of small heat-shock proteins containing a conservative alpha-crystallin domain at the C-terminal part of the molecule. The expression of this gene is induced by estrogen in estrogen receptor-positive breast cancer cells, and this protein also functions as a chaperone in association with Bag3, a stimulator of macroautophagy. Thus, this gene appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease.
Conjugation	HIS
Molecular Weight	23.700kDa inclusive of tags
Tissue specificity	Predominantly expressed in skeletal muscle and heart.
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	pH: 8.00 Constituents: 10% Glycerol, 0.58% Sodium chloride, 0.32% Tris HCl
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C long term. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MADGQMPFSC HYP SRLRRDP FRDSPLSSRL LDDGFGMDPF PDDLTASWPD WALPRLSSAW PGTLRSGMVP RGPTATARFG VPAEGRTPPP FPGEPWKVCV NVHSFKPEEL MVKTKDGYVE VSGKHEEKQQ EGGIVSKNFT KKIQLPAEVD PVTVFASLSP EGLLIIEAPQ VPPYSTFGES SFNNELPQDS QEVTCT
Sequence Similarities	Belongs to the small heat shock protein (HSP20) family.

GENE INFORMATION

Gene Name	HSPB8 heat shock 22kDa protein 8 [Homo sapiens]
Official Symbol	HSPB8
Synonyms	HSPB8; heat shock 22kDa protein 8; heat shock 27kDa protein 8; heat shock protein beta-8; E2IG1; H11; HSP22; HspB8;
Gene ID	26353
mRNA Refseq	NM_014365
Protein Refseq	NP_055180

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MIM	608014
Uniprot ID	Q9UJY1
Chromosome Location	12q24.23
Function	identical protein binding; protein binding; protein serine/threonine kinase activity;

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