

Recombinant Human Heat Shock 22kDa Protein 8

Cat. No. HSPB8-1254H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human Heat Shock Protein 22 was expressed in <i>E. Coli</i> .
Species	Human
Source	E.coli
Description	HSP22 displays temperature-dependent chaperone activity. HSP-22 acts as a mn(2+)-dependent serine-threonine- specific protein kinase. we are not convinced that this is its true role. Defects in HSPB8 are a cause of distal hereditary motor neuropathy type ii (DHMN2) also known as distal spinal muscular atrophy (DSMA) and spinal muscular atrophy of the charcot-marie-tooth type. it is an autosomal dominant disorder of lower motor neurons characterized by distal muscle weakness.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by SDS-PAGE.
Formulation	The HSP22 protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM Tris-acetate, pH-7.6, 10mM NaCl, 0.1mM EDTA, 0.1mM PMSF, 15mMβ-ME.
Solubility	It is recommended to reconstitute the lyophilized HSP22 in sterile 18MΩ-cm H ₂ O not less than 100g/ml, which can then be further diluted to other aqueous solutions.
Stability	Lyophilized HSP22 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution HSP22 should be stored at 4°C

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between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Immunological Activity Immunoreactivity is confirmed by reaction with monoclonal mouse antibodies against HSP22.

GENE INFORMATION

Gene Name HSPB8 heat shock 22kDa protein 8 [Homo sapiens]

Synonyms heat shock 22kDa protein 8; H11; HMN2; CMT2L; DHMN2; E2IG1; HMN2A; HSP22; HSPB8; E2-induced gene 1; protein kinase H11; heat shock protein beta-8; heat shock 27kDa protein 8; small stress protein-like protein HSP22; HspB8; CRYAC; Alpha-crystallin C chain; E2-induced gene 1 protein; Protein kinase H11; Small stress protein-like protein HSP22

Gene ID 26353

mRNA Refseq NM_014365

Protein Refseq NP_055180

MIM 608014

UniProt ID Q9UJY1

Chromosome Location 12q24.23

Function protein serine/threonine kinase activity; identical protein binding

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