# Recombinant Human Heat Shock 22kDa Protein 8

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

## SPECIFICATION

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| **Product Overview** | Recombinant Human Heat Shock Protein 22 was expressed in*E.Coli*. |
| **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 $H_2O$ not less than 100µg/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

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| **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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