
Product Data Sheet

Product Name: HSPB8 Human
Cat. No.: GP25117
Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	HSPB8; H11; HMN2; CMT2L; DHMN2; E2IG1; HMN2A; HSP22; Heat shock protein beta-8; Alpha-crystallin C chain; Small stress protein-like protein HSP22; E2-induced gene 1 protein; Protein kinase H11; CRYAC.		
Solubility	It is recommended to reconstitute the lyophilized HSPB8 in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The HSPB8 protein was lyophilized from a concentrated (1mg/ml) solution containing 20mM Tris-acetate, pH-7.6, 10mM NaCl, 0.1mM EDTA, 0.1mM PMSF, 15mM b-ME.		

Introduction

HSPB8 displays temperature-dependent chaperone activity. HSPB8 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.

Stability

Lyophilized HSPB8 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution HSPB8 should be stored at 4°C 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.

Background

Recombinant Human Heat Shock Protein 22 kDa Protein-8 is a full-length human HSP22

Caution: Product has not been fully validated for medical applications. For research use only.

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with an MW of 21604 Dalton produced in E.coli.

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