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HSPB8 Human

Heat Shock Protein 22 kDa Protein-8 Human Recombinant
RCP1089

Product Overview

Name	HSPB8 Human

Description

Heat Shock Protein 22 kDa Protein-8 Human Recombinant

Accession (Primary)	Q9UJY1

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.

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

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.

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.

Purity

Greater than 95.0% as determined by SDS-PAGE.

Solubility

It is recommended to reconstitute the lyophilized HSPB8 in sterile 18M-cm H2O not less than 100 µg/ml, which can

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then be further diluted to other aqueous solutions.

References

Title : Roles of ERK and NF-?B in Interleukin-8 Expression in Response to Heat Shock Protein 22 in Vascular Smooth Muscle Cells. Publication: Korean J Physiol Pharmacol. 2008 Aug;12(4):171-176. Link: HSPB8 prospec publication Applications: HSP22 induces IL-8 in VSMCs via ERK1/2.

Immunological Activity

Immunoreactivity is confirmed by reaction with monoclonal mouse antibodies against HSPB8.

Precautions

HSPB8 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9UJY1)