

HSPB8 Human

Catalog #:HYP5-029

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.

For research use only.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered White lyophilized (freeze-dried) powder.

Purity:Greater than 95.0% as determined by SDS-PAGE.

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 -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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized HSPB8 in sterile 18M-cm H₂O not less than 100

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.

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:

<http://synapse.koreamed.org/DOIx.phpid=10.4196/kjpp.2008.12.4.171&vmode=FULL>Applications: HSP22 induces IL-8 in VSMCs via ERK1/2.

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