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California Bioscience

Product Datasheet

Product Name	Heat Shock Protein 22 Human Recombinant
Cata No	CB500766
Source	*Escherichia Coli.*
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

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, 15mM ß-ME.

Stability

Lyophilized HSP22 although stable at room temperature for 3 weeks, should be stored desiccated below -18℃. Upon reconstitution HSP22 should be stored at 4℃ between 2-7 days and for future use below
-18℃.
For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.