

Recombinant Human Hsp22 Protein 8

ORDERING INFORMATION

Catalog nos.: 11133P-2 2ug
11133P-10 10ug
11133P-100 100ug

Format: Recombinant Human Heat Shock Protein 22 kDa Protein-8 is a full-length human HSP22 with an MW of 21.6 kDa produced in *E.coli*. Lyophilized from a 1mg/ml sterile-filtered solution in 20mM Tris-acetate buffer, pH 7.6, 10mM NaCl, 0.1mM EDTA, 0.1mM PMSF, and 15mM β -mercaptoethanol. Purified by proprietary chromatographic techniques.

BACKGROUND

Hsp22, a Mn⁺²-dependent serine-threonine-specific protein kinase, displays temperature-dependent chaperone activity. Defects in Hsp22 cause distal hereditary motor neuropathy type 2 (also known as distal spinal muscular atrophy) and spinal muscular atrophy of the charcot-marie-tooth type.

SPECIFICATION SUMMARY

Source: *Escherichia coli*

Purity: Greater than 95% as determined by SDS-PAGE.

Accession number: Q9UJY1

Application: Induces IL-8 in VSMCs via ERK1/2.

Solubility: Reconstitute in sterile distilled H₂O to no less than 100ug/ml; dilute reconstituted stock further in other aqueous solutions if needed.

STORAGE AND STABILITY

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. Addition of a carrier protein (such as 0.1% HSA or BSA) is recommended for long-term storage. Avoid multiple freeze-thaw cycles.

For in vitro investigational use only. Not intended for therapeutic or diagnostic procedures.