



Recombinant Protein Technical Manual

Recombinant Human HSPB8 Protein (His Tag)

RPES0394

Product Data:

Product SKU: RPES0394

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q9UJY1

Protein Information:

Molecular Mass: 22.7 kDa

AP Molecular Mass: 23 kDa

Tag: C-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.4.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Heat shock protein beta-8; HspB8; Alpha-crystallin C chain; E2-induced gene 1 protein; Protein kinase H11; Small stress protein-like protein HSP22; HSPB8; CRYAC; E2IG1; HSP22

Immunogen Information:

Sequence: Met 1-Thr196

Background:

Heat shock protein beta-8 (HSPB8) belongs to the small heat shock protein (HSP20) family. This protein can be induced by 17-beta-estradiol, and is predominantly expressed in skeletal muscle and heart, mainly located in the cytoplasm and nucleus. HSPB8 usually exists in monomer, it can interact with HSPB1 and DNAJB6. HSPB8 displays temperature-dependent chaperone activity, appears to be involved in regulation of cell proliferation, apoptosis, and carcinogenesis, and mutations in this gene have been associated with different neuromuscular diseases, including Charcot-Marie-Tooth disease.