



Recombinant Protein Technical Manual

Recombinant Human CRYAA Protein (His Tag)

RPES3185

Product Data:

Product SKU: RPES3185

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P02489

Protein Information:

Molecular Mass: 20.9 kDa

AP Molecular Mass: 20 kDa

Tag: C-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from a 0.2 µm filtered solution of PBS, 2mM EDTA, pH 8.0.

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

Application:

Synonyms: Alpha-Crystallin A Chain; Heat Shock Protein Beta-4; HspB4; Alpha-Crystallin A Chain; Short Form; CRYAA; CRYA1; HSPB4

Immunogen Information:

Sequence: Met 1-Ser173

Background:

Alpha-Crystallin A Chain (CRYAA) belongs to the small heat shock protein (HSP20) family and can be induced by heat shock. The expression of CRYAA is preferentially restricted to the lens cell. CRYAA may contribute to the transparency and refractive index of the lens. CRYAA has chaperone-like activity, preventing aggregation of various proteins under a wide range of stress conditions. Two additional functions of CRYAA are an autokinase activity and participation in the intracellular architecture.