



Recombinant Protein Technical Manual

Recombinant Human CRYAB Protein (His Tag)

RPES3128

Product Data:

Product SKU: RPES3128

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P02511

Protein Information:

Molecular Mass: 21.2 kDa

AP Molecular Mass: 21 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: 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 20mM PB, 150mM NaCl, pH 7.2.

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

Application:

Synonyms: Alpha-Crystallin B Chain; Alpha(B)-Crystallin; Heat Shock Protein Beta-5; HspB5; Renal Carcinoma Antigen NY-REN-27; Rosenthal Fiber Component; CRYAB; CRYA2

Immunogen Information:

Sequence: Met 1-Lys175

Background:

α Crystallin B Chain (CRYAB) is a cytoplasmic protein that belongs to the small heat shock protein (HSP20) family. Alpha crystallins are composed of two gene products: alpha-A and alpha-B, for acidic and basic, respectively. Alpha crystallins can be induced by heat shock and are members of the small heat shock protein (sHSP also known as the HSP20) family. Alpha crystallins acts as molecular chaperones and hold them in in large soluble aggregates. CRYAB is expressed widely in many tissues and organs. It may contribute to the transparency and refractive index of the lens. The deficiency of CRYAB is the cause of myopathy myofibrillar type 2 (MFM2) and cataract posterior polar type 2 (CTPP2).