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Datasheet for ABIN7319198 CRYAB Protein (His tag)

Overview

Quantity:	50 µg
Target:	CRYAB
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRYAB protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human CRYAB Protein (His Tag)
Sequence:	Met 1-Lys175
Characteristics:	Recombinant Human Crystalline alpha -B chain is produced by our E.coli expression system and the target gene encoding Met1-Lys175 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	CRYAB
Alternative Name:	CRYAB (CRYAB Products)
Background:	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

Target Details

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

Molecular Weight: 21.2 kDa

UniProt: [P02511](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

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

Buffer: Lyophilized from a 0.2 µm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.2.

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, 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.