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Product datasheet for SA6019X

Alpha-crystallin B chain / CRYA2 Human Protein

Product data:

Product Type: Recombinant Proteins	
Description: Alpha-crystallin B chain / CRYA2 human recombinant protein, 1 mg	
Species: Human	
Expression Host: E. coli	
Expression cDNA CloneMDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLESDLFPT STSLSPFYLR PPSFLRAPSWor AA Sequence:EKDRFSVNLD VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDGVLTVNGPRK QVSGPERTIP ITREEKPAVT AAPKK	
Predicted MW: 20 kDa	
Concentration: lot specific	
Purity: >95% by SDS-PAGE	
Buffer:Presentation State: PurifiedState: Liquid purified proteinBuffer System: 20 mM Tris-HCl buffer (pH 7.5) containing 50 mM NaCl, 1 mM ED	DTA
Preparation: Liquid purified protein	
Protein Description: Recombinant Human Crystallin alpha B produced in E.coli	
Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longAvoid repeated freezing and thawing.	ger.
Stability:Shelf life: one year from despatch.	
RefSeq: NP 001276736	
Locus ID: 1410	
UniProt ID: <u>P02511</u> , <u>V9HW27</u>	
Cytogenetics: 11q23.1	
Synonyms: CMD1II; CRYA2; CTPP2; CTRCT16; HEL-S-101; HSPB5; MFM2	

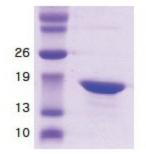


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GRIGENE Alpha-crystallin B chain / CRYA2 Human Protein – SA6019X

Summary: Mammalian lens crystallins are divided into alpha, beta, and gamma families. 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 (HSP20) family. They act as molecular chaperones although they do not renature proteins and release them in the fashion of a true chaperone; instead they hold them in large soluble aggregates. These heterogeneous aggregates consist of 30-40 subunits; the alpha-A and alpha-B subunits have a 3:1 ratio, respectively. Two additional functions of alpha crystallins are an autokinase activity and participation in the intracellular architecture. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. Alpha-A and alpha-B gene products are differentially expressed; alpha-A is preferentially restricted to the lens and alpha-B is expressed widely in many tissues and organs. Elevated expression of alpha-B crystallin occurs in many neurological diseases; a missense mutation cosegregated in a family with a desmin-related myopathy. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2019]

Product images:



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