

## CRYAA

### Recombinant Human Crystallin Alpha A

<b>Catalog No.</b>	CRC167A CRC167B CRC167C	<b>Quantity:</b>	20 µg 100 µg 1.0 mg
<b>Alternate Names:</b>	CRYAA, CRYA1, HSPB4		
<b>Description:</b>	<p>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). They act as molecular chaperones and 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 expression of alpha-A is preferentially restricted to the lens cell.</p> <p>Recombinant Human CRYAA is a single, non-glycosylated polypeptide chain containing 173 amino acids and purified by proprietary chromatographic techniques.</p>		
<b>Concentration:</b>	1 mg/ml		
<b>Gene ID:</b>	1409		
<b>Source:</b>	<i>E. coli</i>		
<b>Molecular Weight:</b>	19.91 kDa		
<b>Formulation:</b>	Sterile filtered liquid in 20 mM Tris-HCl, pH 7.5, + 50 mM NaCl + 1 mM EDTA		
<b>Purity:</b>	> 95% as determined by RP-HPLC and SDS-PAGE analyses		
<b>Endotoxin Level:</b>	< 0.1 ng/µg of CRYAA		
<b>Amino Acid Sequence:</b>	MDVTIQHPWF KRTLGPFPYPS RLFDQFFGEG LFEYDLLPFL SSTISPPYRQ SLFRTVLDSG ISEVRSDRDK FVIFLDVKHF SPEDLTVKVQ DDFVEIHGKH NERQDDHGYI SREFHRRYRL PSNVDQSALS CSLSADGMLT FCGPKIQTGL DATHAERAIP VSREEKPTSA PSS		
<b>Storage &amp; Stability:</b>	Store at 2-4°C for up to 4 weeks or in working aliquots at -20°C for longer storage. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. <b>Avoid repeated freeze-thaw cycles.</b>		

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