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## Product Data Sheet

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Product Name: CRYAA Human  
 Cat. No.: GP25056  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	CRYA1; HSPB4; CRYAA; Crystallin Alpha A; Alpha-crystallin A chain; Heat shock protein beta-4.		
Amino Acid Sequence	MDVTIQHPWF KRTLGPFFYPS RLFDQFFGEG LFEYDLLPFL SSTISPYRQ SLFRTVLDGISEVRSRDK FVIFLDVKHF SPEDLTVKVQ DDFVEIHGKH NERQDDHGYI SREFHRRYRLPSNVDQSALS CSLSADGMLT FCGPKIQTGL DATHAERAIP VSREEKPTSA PSS.		
Formulation	The CRYAA protein contains 20mM Tris-HCl buffer (pH 7.5), 50mM NaCl and 1mM EDTA.		

### Introduction

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 function of a-crystallins are an autokinase activity and participation in the intracellular architecture. The expression of alpha-A is preferentially restricted to the lens cell.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recombinant Human CRYAA produced in E.Coli is a single, non-glycosylated polypeptide

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chain containing 173 amino acids and having a molecular mass of 19.9kDa. CRYAA is purified by proprietary chromatographic techniques.

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