

## CRYAA Human

**Description:** Recombinant Human CRYAA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 173 amino acids and having a molecular mass of 19,909 Dalton. CRYAA is purified by proprietary chromatographic techniques.

Catalog #: HYP5-009

**Synonyms:** CRYA1, HSPB4, CRYAA, Crystallin Alpha A, Alpha-crystallin A chain, Heat shock protein beta-4.

For research use only.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MDVTIQHPWF KRTLGPFPYPS RLFQDFGEG LFEYDLLPFL  
SSTISPYRQ SLFRTVLDSGISEVRSRDK FVIFLDVKHF SPEDLTVKQV DDFVEIHGKH  
NERQDDHGYI SREFHRRYRLPSNVDQSALS CSLSADGMLT FCGPKIQTGL DATHAERAIP  
VSREEKPTSA PSS.

**Purity:** Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

The CRYAA protein contains 20mM Tris-HCl buffer (pH 7.5), 50mM NaCl and 1mM EDTA.

**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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**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 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.

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