
Crystallin alpha A (CRYAA)

Human, Recombinant, *E.coli*

Cat. No. CRA3001

Size ; 100 μ g

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

Form : Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 50mM NaCl, 1mM EDTA.

Molecular Weight : 19,909(173amino acids)

Purity : \geq 95% by SDS PAGE **Concentration ;** 1mg/ml

Sequence :

MDVTIQHPWF KRTLGPFYPS RLFQDFGEG LFEYDLLPFL SSTISPYRQ SLFRTVLDSG
ISEVRSRDK FVIFLDVKHF SPEDLTVKVQ DDFVEIHGKH NERQDDHGYI SREFHRRYRL
PSNVDQSALS CSLSADGMLT FCGPKIQTGL DATHAERAIP VSREEKPTSA PSS

Storage : Store at -20 °C. Avoid freeze/thaw cycles.

Reference : Hasan, A., *et al.*(2002) *Biochemistry* 41(52)
15876-15882

Bera,S., *et al*(2002) *Biochemistry* 41(41) 12421-12426

Reddy, G.B., *et al*(2002) *FEBS lett.* 522(1-3) 59-64

Andley, U.P., *et al*(2002) *J.Biol.Chem.*277(12) 10178-10186

