

Recombinant Human Crystallin Alpha A

Cat. No. CRYAA-309H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRYA1 protein expressed in E.coli contains 173 (1-173) amino acids and has a molecular mass of 19.9 kDa.
Species	Human
Source	E.coli
ProteinLength	1-173 a.a.
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 alpha-crystallins are an autokinase activity and participation in the intracellular architecture. The expression of alpha-A is preferentially restricted to the lens cell.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 7.5) containing 50 mM NaCl, 1 mM EDTA.
Molecular Weight	19.9 kDa (173aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).

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Sequence	MDVTIQHPWF KRTLGPFYPS RLFDQFFGEG LFEYDLLPFL SSTISPYRQ SLFRTVLDSG ISEVRSDRDK FVIFLDVKHF SPEDLTVKVQ DDFVEIHGKH NERQDDHGYI SREFHRRYRL PSNVDQSALS CSLSADGMLT FCGPKIQTGL DATHAERAIP VSREEKPTSA PSS
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
GENE INFORMATION	
Gene Name	CRYAA
Synonyms	CRYAA; crystallin, alpha A; CRYA1; HSPB4; HspB4; Heat shock protein beta-4; crystallin, alpha A; crystallin, alpha-1; human alphaA-crystallin (CRYA1).
Gene ID	1409
mRNA Refseq	NM_000394.2
Protein Refseq	NP_000385.1
MIM	123580
UniProt ID	P02489
Chromosome Location	21q22.3
Function	structural constituent of eye lens; unfolded protein binding; unfolded protein binding.