

AR03037PU-L**Mouse Alpha-crystallin A chain / CRYA1 (1-175) - Purified**

Alternate names:	CRYAA, HSPB4, Heat shock protein beta-4
Quantity:	0.5 mg
Concentration:	1.0 mg/ml
Background:	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 α -crystallins are an autokinase activity and participation in the intracellular architecture. CRYAB is expressed widely in many tissues and organs. Recombinant CRYAB was expressed in E.coli and purified by using conventional chromatography techniques.
Uniprot ID:	P24622
NCBI:	NP_038529.1
GeneID:	12954
Species:	Mouse
Source:	E. coli
Format:	State: Liquid Purity: >95% > 95 % by SDS PAGE Buffer System: 20mM Tris pH 8.0 and 10 % glycerol
Description:	Recombinant mouse Crystallin alpha A / CRYAA AA Sequence: MDIAIHHPI RPPFFPFHSP SRLFDQFFGE HLESDFST ATSLSPFYLR PPSFLRAPSW IDTGLSEMRL EKDRFSVNLV VKHFSPEELK KVLGVDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVA AAPKK Molecular weight: 20 kDa 20 kDa (175 aa)
Add. Information:	NCBI Accession No: NP_034094
Storage:	Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Hasan, A., et al.(2002) Biochemistry 41(52) 15876-15882 2. Kamradt,M.C., et al.(2002) J. Biol.Chem. 277(41) 38731-387363. 2. Reddy, G.B., et al. (2002) FEBS lett. 522(1-3) 59-64 3. Ito, H., et al. (2002) J.Biochem.131(4) 593-603

Pictures:

