

## Product datasheet for **AR03037PU-N**

### Alpha-crystallin A chain / CRYA1 (1-175) Mouse Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Alpha-crystallin A chain / CRYA1 (1-175) mouse recombinant protein, 0.1 mg
Species:	Mouse
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MDIAIHPWI RRPFFPFHSP SRLFDQFFGE HLLSDFST ATSLSPFYLR PPSFLRAPSW IDTGLSEMRL EKDRFSVNLV VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP ITREEKPAVA AAPKK
Predicted MW:	20 kDa
Concentration:	lot specific
Purity:	>95% > 95 % by SDS PAGE
Buffer:	Presentation State: Purified State: Liquid Buffer System: 20 mM Tris pH 8.0 and 10% glycerol
Preparation:	Liquid
Protein Description:	Recombinant mouse Crystallin alpha A / CRYAA
Note:	NCBI Accession No: NP_034094
Storage:	Store (in aliquots) at -20 °C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<a href="#">NP_001265498</a>
Locus ID:	12954
UniProt ID:	<a href="#">A0A494B9Q6</a>
Cytogenetics:	17 17.09 cM
Synonyms:	Acry; Acry-1; Cry; Crya; Crya-1; Crya1; DACry; DACry-1; lop18



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**Summary:**

This gene encodes subunit a, one of two subunits of alpha-crystallin, which is a high molecular weight, soluble aggregate and is a member of the small heat shock protein (sHSP) family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. It acts as a molecular chaperone and is the major protein in the eye lens, maintaining the transparency and refractive index of the lens. In mouse, deficiency in this gene is associated with smaller lenses and eyes and with increasing lens opacity with age. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2014]

**Product images:**