

Datasheet for ABIN7546771  
**CRYAA Protein (AA 1-173) (His tag)**



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## Overview

Quantity:	1 mg
Target:	CRYAA
Protein Characteristics:	AA 1-173
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CRYAA protein is labelled with His tag.

## Product Details

Purpose:	Custom-made recombinant CRYAA Protein expressed in mammalian cells.
Sequence:	MDVTIQHPWF KRTLGPFPYPS RLFQFFGEG LFEYDLLPFL SSTISPYRQ SLFRTVLDSG ISEVRSRDK FVIFLDVKHF SPEDLTVKVQ DDFVEIHGKH NERQDDHGYI SREFHRRYRL PSNVDQSALS CSLSADGMLT FCGPKIQTGL DATHAERAIP VSREEKPTSA PSS <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and</li></ul>

## Product Details

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transmembrane proteins.

- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

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## Target Details

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Target:	CRYAA
Alternative Name:	CRYAA ( <a href="#">CRYAA Products</a> )
Background:	Alpha-crystallin A chain (Heat shock protein beta-4) (HspB4) [Cleaved into: Alpha-crystallin A(1-172), Alpha-crystallin A(1-168), Alpha-crystallin A(1-162)],FUNCTION: Contributes to the transparency and refractive index of the lens (PubMed:18302245). In its oxidized form (absence of intramolecular disulfide bond), acts as a chaperone, preventing aggregation of various proteins under a wide range of stress conditions (PubMed:22120592, PubMed:31792453, PubMed:18199971, PubMed:19595763). Required for the correct formation of lens intermediate filaments as part of a complex composed of BFSP1, BFSP2 and CRYAA (PubMed:28935373). {ECO:0000269 PubMed:18199971, ECO:0000269 PubMed:19595763, ECO:0000269 PubMed:22120592, ECO:0000269 PubMed:28935373, ECO:0000269 PubMed:31792453, ECO:0000303 PubMed:18302245}.
Molecular Weight:	19.9 kDa
UniProt:	<a href="#">P02489</a>
Pathways:	<a href="#">M Phase</a>

## Application Details

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Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

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Restrictions: For Research Use only

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## Handling

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Format: Liquid

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Buffer: The buffer composition is at the discretion of the manufacturer.

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months

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