

[Go to Product page](#)

Datasheet for ABIN7319201 CRYAA Protein (His tag)

Overview

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|-------------------------------|--|
| Quantity: | 50 µg |
| Target: | CRYAA |
| Origin: | Human |
| Source: | Escherichia coli (E. coli) |
| Protein Type: | Recombinant |
| Purification tag / Conjugate: | This CRYAA protein is labelled with His tag. |

Product Details

| | |
|------------------|---|
| Purpose: | Recombinant Human CRYAA Protein (His Tag) |
| Sequence: | Met 1-Ser173 |
| Characteristics: | Recombinant Human alpha-Crystallin A Chain is produced by our E.coli expression system and the target gene encoding Met1-Ser173 is expressed with a 6His tag at the C-terminus. |
| Purity: | > 90 % as determined by reducing SDS-PAGE. |
| Endotoxin Level: | < 1.0 EU per µg as determined by the LAL method. |

Target Details

| | |
|-------------------|---|
| Target: | CRYAA |
| Alternative Name: | CRYAA (CRYAA Products) |
| Background: | Background: Alpha-Crystallin A Chain (CRYAA) belongs to the small heat shock protein (HSP20) family and can be induced by heat shock. The expression of CRYAA is preferentially restricted to the lens cell. CRYAA may contribute to the transparency and refractive index of the lens. |

Target Details

CRYAA has chaperone-like activity, preventing aggregation of various proteins under a wide range of stress conditions. Two additional functions of CRYAA are an autokinase activity and participation in the intracellular architecture.

Synonym: Alpha-Crystallin A Chain, Heat Shock Protein Beta-4, HspB4, Alpha-Crystallin A Chain, Short Form, CRYAA, CRYA1, HSPB4

Molecular Weight: 20.9 kDa

UniProt: [P02489](#)

Pathways: [M Phase](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from a 0.2 µm filtered solution of PBS, 2 mM EDTA, pH 8.0.

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.