

## Recombinant Human CRYBA4, His-tagged

**Cat. No.** CRYBA4-3607H    **Lot. No.** (See product label)

### SPECIFICATION

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                           |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>         | Recombinant human CRYBA4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.                                                                                                                                                                                                                                                                              |
| <b>Species</b>                  | Human                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Source</b>                   | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Description</b>              | CRYBA4, also known as Beta-crystallin A4, belongs to the beta/gamma-crystallin family that are the dominant structural components of the vertebrate eye lens. Beta-crystallins form aggregates of different sizes and are able to self-associate to form dimers or to form heterodimers with other beta-crystallins. This gene, a beta acidic group member, is part of a gene cluster with beta-B1, beta-B2, and beta-B3. |
| <b>Form</b>                     | Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Weight</b>         | 24.5 kDa(216aa), confirmed by MALDI-TOF                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>                   | >95% by SDS - PAGE                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Concentration</b>            | 1.0 mg/ml (determined by Bradford assay)                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Sequences of amino acids</b> | MGSSHHHHHH SSGLVPRGSH MTLQCTKSAG PWKMVWDED GFQGRRHEFT<br>AECPSVLELG FETVRSCLKVL SGAWVGFEHA GFQGQQYILERGEYPSWDAW<br>GGNTAYPAER LTSFRPAACA NHRDSRLTIF EQENFLGKKG ELSDDYPSLQ<br>AMGWEGNEVG SFHVHSGAWV CSQFPGYRGFQYVLECDHHS GDYKHFREWG                                                                                                                                                                                        |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

SHAPTFQVQS IRRIQQ

**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**

CRYBA4 crystallin, beta A4 [ Homo sapiens ]

**Official Symbol**

CRYBA4

**Synonyms**

CRYBA4; MCOPCT4;crystallin, beta A4; beta-crystallin A4;OTTHUMP00000198864;beta-A4 crystallin;eye lens structural protein;crystallin, beta polypeptide A4

**Gene ID**

1413

**mRNA Refseq**

NM\_001886

**Protein Refseq**

NP\_001877

**MIM**

123631

**UniProt ID**

P53673

**Chromosome Location**

22q11.2-q13.1; 22q12.1

**Function**

molecular\_function; structural constituent of eye lens

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