

## CRYAB (Crystallin alpha B) Recombinant Protein | CRYAB recombinant protein

CRYAB (Crystallin alpha B), 1-175aa, Human, E Coli

|                              |                       |                                 |
|------------------------------|-----------------------|---------------------------------|
| CATALOG #<br><b>AAA48439</b> | HOST<br><b>E Coli</b> | APPLICATIONS<br><b>SDS-Page</b> |
|------------------------------|-----------------------|---------------------------------|

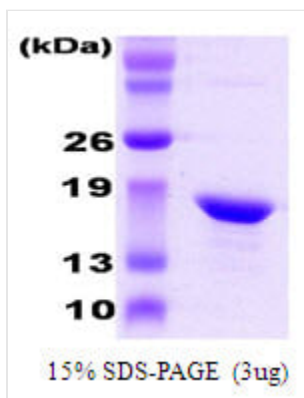
### PRODUCT SYNONYMS

CRYAB (Crystallin alpha B); 1-175aa; Human; E Coli; CRYAB; CRYA2; Rosenthal fiber component; Heat shock protein beta-5; HspB5; Renal carcinoma antigen NY-REN-27; Alpha crystallin B chain; AACRYA; Alpha (B) crystallin; Crystallin alpha polypeptide 2; CTPP 2; CTPP2; Heat shock 20 kD like protein; Heat shock protein beta 5; NY REN 27 antigen; Renal carcinoma antigen NY REN 27; ; CRYAB recombinant protein

### PRODUCT SPECIFICATIONS

|                                                       |                                                                                                                                                                                                        |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                                  | E Coli                                                                                                                                                                                                 |
| Purity/Purification                                   | > 95% by SDS-PAGE                                                                                                                                                                                      |
| Form/Format                                           | Liquid. In 20 mM Tris-HCl Buffer (pH 7.5) containing 50mM NaCl, 1mM EDTA                                                                                                                               |
| Concentration                                         | 1 mg/ml (determined by Bradford assay) (varies by lot)                                                                                                                                                 |
| Sequence                                              | MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLESDLFPT STLSPPFYLR PPSFLRAPSW FDTGLSEMRL<br>EKDRFSVNLD VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD<br>GVLTVNGPRK QVSGPERTIP ITREEKPAVT AAPKK |
| Sequence Length                                       | 175                                                                                                                                                                                                    |
| Applicable Applications for CRYAB recombinant protein | SDS-PAGE                                                                                                                                                                                               |
| Antigen Species                                       | Human                                                                                                                                                                                                  |
| Preparation and Storage                               | Can be stored at 4 degree C short term (1-2 weeks).<br>For long term storage, aliquot and store at -20 degree C or -70 degree C.<br>Avoid repeated freezing and thawing cycles.                        |

### IMAGES



SDS-PAGE

## ADDITIONAL INFORMATION

|                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for CRYAB recombinant protein</b> | 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 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 function of alpha-crystallins are an autokinase activity and participation in the intracellular architecture. Alpha-B is expressed widely in many tissues and organs and occurs in many neurological diseases. |
| <b>Product Categories/Family for CRYAB recombinant protein</b>   | <a href="#">Heat Shock Proteins</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>References</b>                                                | Hasan, A., et al. (2002) Biochemistry 41 (52) 15876-15882; Kamradt,M.C..., et al (2002) J. Biol.Chem. 277 (41) 38731-38736 ; Reddy, G.B., et al (2002) FEBS lett. 522 (1-3) 59-64 ; Ito, H., et al (2002) J.Biochem.131 (4) 593-603;                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

## NCBI AND UNIPROT INFORMATION

|                                         |                                                                                                                                                                                                       |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>NCBI GI #</b>                        | 4503057                                                                                                                                                                                               |
| <b>NCBI GeneID</b>                      | 1410                                                                                                                                                                                                  |
| <b>NCBI Accession #</b>                 | <a href="#">NP_001876.1</a>                                                                                                                                                                           |
| <b>NCBI GenBank Nucleotide #</b>        | <a href="#">NM_001885.2</a>                                                                                                                                                                           |
| <b>UniProt Accession #</b>              | <a href="#">P02511</a> ; <a href="#">O43416</a> ; <a href="#">Q9UC37</a> ; <a href="#">Q9UC38</a> ; <a href="#">Q9UC39</a> ; <a href="#">Q9UC40</a> ; <a href="#">Q9UC41</a> ; <a href="#">B0YIX0</a> |
| <b>Molecular Weight</b>                 | 20.1kDa (175aa)                                                                                                                                                                                       |
| <b>NCBI Official Full Name</b>          | alpha-crystallin B chain isoform 1                                                                                                                                                                    |
| <b>NCBI Official Synonym Full Names</b> | crystallin alpha B                                                                                                                                                                                    |
| <b>NCBI Official Symbol</b>             | CRYAB                                                                                                                                                                                                 |
| <b>NCBI Official Synonym Symbols</b>    | MFM2; CRYA2; CTPP2; HSPB5; CMD1II; CTRCT16; HEL-S-101                                                                                                                                                 |
| <b>NCBI Protein Information</b>         | alpha-crystallin B chain                                                                                                                                                                              |
| <b>UniProt Protein Name</b>             | Alpha-crystallin B chain                                                                                                                                                                              |
| <b>UniProt Gene Name</b>                | <b>CRYAB</b>                                                                                                                                                                                          |
| <b>UniProt Synonym Gene Names</b>       | CRYA2; HSPB5; HspB5                                                                                                                                                                                   |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://stage.aaabiotech.com/cryab-recombinant-protein-e-coli-sds-page/48439>