

## CRYAB Protein, Human, Recombinant (His)

### General Information

|                       |  |
|-----------------------|--|
| Synonyms:             | $\alpha$ (B)-Crystallin;Alpha(B)-Crystallin;Heat Shock Protein Beta-5;CRYAB;Renal Carcinoma Antigen NY-REN-27; $\alpha$ -Crystallin B Chain;CRYA2;HspB5;Alpha-Crystallin B Chain;Heat Shock Protein $\beta$ -5;Rosenthal Fiber Component |
| Protein Construction: | Met1-Lys175  |
| Species:              | Human  |
| Expression Host:      | E. coli  |
| Accession:            | P02511   |
| Molecular Weight:     | 25 KDa (reducing condition)  |
| AA Sequence:          | Met1-Lys175  |

### QC Testing

|                      |   |
|----------------------|---|
| Biological Activity: | Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first. |
| Purity:              | Greater than 95% as determined by reducing SDS-PAGE. (QC verified)  |
| Endotoxin:           | < 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL test.  |
| Formulation:         | Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, pH 7.4.   |

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100  $\mu$ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

$\alpha$  Crystallin B Chain (CRYAB) is a cytoplasmic protein that belongs to the small heat shock protein (HSP20) family. 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) family. Alpha crystallins acts as molecular chaperones and hold them in in large soluble

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aggregates. CRYAB is expressed widely in many tissues and organs. It may contribute to the transparency and refractive index of the lens. The deficiency of CRYAB is the cause of myopathy myofibrillar type 2 (MFM2) and cataract posterior polar type 2 (CTPP2).

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