

# Recombinant Human CRYAB Protein (His Tag)

Catalog Number:PKSH033245



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

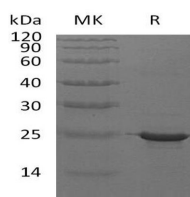
## Description

|                                    |                                                                                                                                                      |
|------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Synonyms</b>                    | Alpha-Crystallin B Chain;Alpha(B)-Crystallin;Heat Shock Protein Beta-5;HspB5;Renal Carcinoma Antigen NY-REN-27;Rosenthal Fiber Component;CRYAB;CRYA2 |
| <b>Species</b>                     | Human                                                                                                                                                |
| <b>Expression Host</b>             | E.coli                                                                                                                                               |
| <b>Sequence</b>                    | Met 1-Lys175                                                                                                                                         |
| <b>Accession</b>                   | P02511                                                                                                                                               |
| <b>Calculated Molecular Weight</b> | 21.2 kDa                                                                                                                                             |
| <b>Observed molecular weight</b>   | 25 kDa                                                                                                                                               |
| <b>Tag</b>                         | C-His                                                                                                                                                |

## Properties

|                       |                                                                                                                                                                                                                                                   |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>         | > 95 % as determined by reducing SDS-PAGE.                                                                                                                                                                                                        |
| <b>Endotoxin</b>      | < 1.0 EU per µg of the protein as determined by the LAL method.                                                                                                                                                                                   |
| <b>Storage</b>        | 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.             |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.                                                                                                                                                                   |
| <b>Formulation</b>    | Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.                                                                                                                                                                                      |

## Data



> 95 % as determined by reducing SDS-PAGE.

## 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 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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