

# Recombinant mouse Crystallin alpha B/CRYAB protein

Catalog Number: CRB0801

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-175aa

### UniProt No.

P23927

### NCBI Accession No.

NP\_034094.1

### Alternative Names

Crya2, Crya-2, Cryab, Crystallin alpha B, HspB5

## PRODUCT SPECIFICATION

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### Molecular Weight

20kDa (175aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10 % glycerol

### Purity

> 95% by SDS-PAGE

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

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 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 functions of alpha-crystallins are an autokinase activity and participation in the intracellular architecture. CRYAB is expressed widely in many tissues and organs. Recombinant CRYAB was

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expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

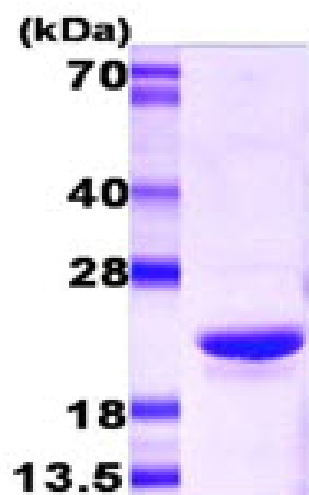
MDIAIHPWI RRPFFPHSP SRLFDQFFGE HLLSDFST ATSLSPFYLR PPSFLRAPS W IDTGLSEMRL EKDRFSVNL D  
VKHFSPEELK VKVLGDVIEV HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK QVSGPERTIP  
ITREEKPAVA AAPKK

## General References

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

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)