

## Recombinant Mouse Crystallin, Alpha B

**Cat. No.** Cryab-330M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant CRYAB was expressed in E.coli and purified by using conventional chromatography techniques (175 aa, 20 kDa).
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>Description</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 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.
<b>Formulation</b>	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
<b>Molecular Weight</b>	20 kDa (175 aa).
<b>Purity</b>	> 95% by SDS – PAGE.
<b>Concentration</b>	1 mg/ml (determined by Bradford assay).
<b>Sequence</b>	MDIAIHPWI RRPFFPFHSP SRLFDQFFGE HLLSDFST ATSLSPFYLR

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PPSFLRAPSW IDTGLSEMRL EKDRFSVNLD VKHFSPEELK VKVLGDVIEV  
HGKHEERQDE HGFISREFHR KYRIPADVDP LTITSSLSSD GVLTVNGPRK  
QVSGPERTIP ITREEKPAVA AAPKK

**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**

Cryab

**Synonyms**

Cryab; crystallin, alpha B; Cryab crystallin, alpha B; Crya2; HspB5; Crya-2; HSPB5; CTPP2; CRYAB; CRYA2; Alpha(B)-crystallin; alpha B-crystallin; crystallin, alpha 2; Heat shock protein beta-5; Renal carcinoma antigen NY-REN-27; Rosenthal fiber component; alpha B crystallin; alpha crystallin B chain; heat-shock 20 kD like-protein.

**Gene ID**

12955

**mRNA Refseq**

NM\_009964.2

**Protein Refseq**

NP\_034094.1

**UniProt ID**

P23927

**Chromosome**

**Location**

9 A5.3; 9 29.0 cM

**Function**

structural constituent of eye lens.

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