

Recombinant Mouse Crystallin, Alpha B

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

SPECIFICATION

Product Overview	Recombinant CRYAB was expressed in E.coli and purified by using conventional chromatography techniques (175 aa, 20 kDa).
Species	Mouse
Source	E.coli
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 α -crystallins are an autokinase activity and participation in the intracellular architecture. CRYAB is expressed widely in many tissues and organs.
Formulation	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Molecular Weight	20 kDa (175 aa).
Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Sequence	MDIAIHHPWI RRPFFPFHSP SRLFDQFFGE HLLESDLFST 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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