



## Product Datasheet

<b>Product Name</b>	Crystallin Alpha B Mouse Recombinant
<b>Cata No</b>	CB501409
<b>Source</b>	<i>Escherichia Coli.</i>
<b>Synonyms</b>	CRYA2, CTPP2, HSPB5, Crystallin Alpha B, CRYAB.

### 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 function of a-crystallins are an autokinase activity and participation in the intracellular architecture. Alpha-B is expressed widely in many tissues and organs and occurs in many neurological diseases.

Recombinant CRYAB Mouse produced in E.Coli is a single, non-glycosylated polypeptide chain containing 175 amino acids and having a molecular mass of 20 kDa.

Mouse CRYAB is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless solution.

### Purity

Greater than 95.0% as determined by:  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE.

### Formulation

The Mouse CRYAB protein solution contains 20mM Tris buffer pH-8 and 10% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks.

Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

**Avoid multiple freeze-thaw cycles.**

### Sequence

MDIAIHPWI RRPFFPFHSP SRLFDQFFGE  
HLLSDFST ATSLSPFYLR PPSFLRAPSW  
IDTGLSEMRL EKDRFSVNLK VKHFSPEELK  
VKVLGDVIEV HGKHEERQDE HGFISREFHR  
KYRIPADVDP LTITSSLSSD GVLTVNGPRK  
QVSGPERTIP ITREEKPAVA AAPKK