

## Recombinant Mouse Cryab Protein

Cat. No. Cryab-002M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Cryab protein without tag was expressed in E. coli.

**Species** Mouse

**Source** E.coli

**ProteinLength** 175

**Description**

This gene encodes a member of the small heat-shock protein (HSP20) family. The encoded protein is a molecular chaperone that protects proteins against thermal denaturation and other stresses. This protein is a component of the eye lens, regulates lens differentiation and functions as a refractive element in the lens. This protein is a negative regulator of inflammation, has anti-apoptotic properties and also plays a role in the formation of muscular tissue. Mice lacking this gene exhibit worse experimental autoimmune encephalomyelitis and inflammation of the central nervous system compared to the wild type. In mouse models, this gene has a critical role in alleviating the pathology of the neurodegenerative Alexander disease. Mutations in the human gene are associated with myofibrillar myopathy 2, fatal infantile hypertonic myofibrillar myopathy, multiple types of cataract and dilated cardiomyopathy. Alternative splicing results in multiple transcript variants.

**Form** Solution

**Molecular Mass** 20 kDa

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<b>AA Sequence</b>	MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDFSTATSLSPFYLRPPSFLRAP SWIDTGLSEMRLEKDRFSVNLVDVKHFSPEELKVKVLGDVIEVHGKHEERQDEHGFIS REFHRKYRIPADVDPLTITSSLSSDGVLTVNGPRKQVSGPERTIPITREEKPAVAAAP KK
<b>Purity</b>	> 95%
<b>Applications</b>	WB
<b>Stability</b>	This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.
<b>Storage</b>	4°C
<b>Concentration</b>	1 mg/mL
<b>Storage Buffer</b>	Tris (pH 8). Sterile-filtered colorless solution.
<b>Reconstitution</b>	Reconstitute in sterile distilled H2O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

<b>Gene Name</b>	Cryab crystallin, alpha B [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Cryab
<b>Synonyms</b>	Cryab; crystallin, alpha B; P23; Crya2; HspB5; Crya-2; alpha-crystallin B chain;

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alpha(B)-crystallin; crystallin, alpha 2; heat shock protein CryAB; heat shock protein HspB5

**Gene ID**

[12955](#)

**mRNA Refseq**


[NM\\_009964](#)

**Protein Refseq**

[NP\\_034094](#)

**UniProt ID**

[P23927](#)

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