

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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AA Sequence	MDIAIHHPWIRRPFFPFHSPSRLFDQFFGEHLLESDFSTATSLSPFYLRPPSFLRAP SWIDTGLSEMRLEKDRFSVNLVDVKHFSPEELKVVLGDVIEVHGKHEERQDEHGFIS REFHRKYRIPADVDPLTITSSLSSDGVLTVNGPRKQVSGPERTIPITREEKPAVAAAP KK
Purity	> 95%
Applications	WB
Stability	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.
Storage	4°C
Concentration	1 mg/mL
Storage Buffer	Tris (pH 8). Sterile-filtered colorless solution.
Reconstitution	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

Gene Name	Cryab crystallin, alpha B [Mus musculus (house mouse)]
Official Symbol	Cryab
Synonyms	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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