

Recombinant Mouse Cryab Protein, Myc/DDK-tagged

Cat. No. Cryab-2326M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length crystallin, alpha B (Cryab), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
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.
Molecular Mass	20.1 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade after receiving vials.

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

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

Official Symbol Cryab

Synonyms CRYAB; crystallin, alpha B; alpha-crystallin B chain; P23; alpha B-crystallin; alpha(B)-crystallin; crystallin, alpha 2; Crya2; HspB5; Crya-2

Gene ID 12955

mRNA Refseq NM_009964

Protein Refseq NP_034094

UniProt ID P23927

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