

Recombinant Mouse Crybb2 Protein, Myc/DDK-tagged

Cat. No. Crybb2-2330M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length crystallin, beta B2 (Crybb2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	This gene is a member of the beta-crystallin family. Beta crystallins, along with alpha and gamma crystallins, are the major proteins found in the eye lens. These proteins maintain the refractive index of the lens whilst also maintaining its transparency. Since lens central fiber cells lose their nuclei during development, crystallins are made and then retained throughout life, making them extremely stable proteins. Beta and gamma crystallins are considered be a superfamily and have a similar domain architecture, including four Greek Key motifs. Beta-crystallins form aggregates of different sizes and are able to self-associate to form dimers or to form heterodimers with other beta-crystallins. The protein encoded by this gene may have Ca²⁺-binding activity and could be associated with potential functions in the hippocampus and in sperm. Targeted knockout of this gene in mouse induces age-related cataract. A chain-terminating mutation in a similar gene in human was found to cause type 2 cerulean cataracts.
Molecular Mass	23.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining

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Stability	Stable for 12 months from the date of receipt of the product under proper storage and 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	Crybb2 crystallin, beta B2 [Mus musculus (house mouse)]
Official Symbol	Crybb2
Synonyms	CRYBB2; crystallin, beta B2; beta-crystallin B2; Philly cataract; betaB2-crystallin; beta-B2 crystallin; beta-crystallin Bp; Aey2; Phil; Cryb-2
Gene ID	12961
mRNA Refseq	NM_007773
Protein Refseq	NP_031799
UniProt ID	P62696

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