

Recombinant Human CRYBA2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CRYBA2-5469H Lot. No. (See product label)

SPECIFICATION

Product Overview

CRYBA2 MS Standard C13 and N15-labeled recombinant protein (NP_476434) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

Species

Human

Source

HEK293

Description

Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of the vertebrate eye, which function to maintain the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also defined as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and N- and C-terminal extensions. Beta-crystallins, the most heterogeneous, differ by the presence of the C-terminal extension (present in the basic group but absent in the acidic group). Beta-crystallins form aggregates of different sizes and are able to form homodimers through self-association or heterodimers with other beta-crystallins. This gene is a beta acidic group member. Three alternatively spliced transcript variants encoding identical proteins have been reported.

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Molecular Mass	22.1 kDa
AA Sequence	MSSAPAPGPAPASLT LWDEEDFQGRRCRLLSDCANVCERGGLPRVRSVKVENGV WVAFEYPDFQGQQFILEKGDYPRWSAWSGSSSHNSNQLLSFRPVLCANHND SRVT LFEGDNFQGCKFDLVDDYPSLPSMGWASKDVGSLKVSSGAWWAYQYPGYRGYQY VLERDRHSGEFCTY GELGTQAHTGQLQSIRRVQHTRTRPLEQKLISEEDLAANDILD YKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 µg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	CRYBA2 crystallin beta A2 [Homo sapiens (human)]
Official Symbol	CRYBA2
Synonyms	CRYBA2; crystallin, beta A2; beta-crystallin A2; eye lens structural protein;
Gene ID	1412
mRNA Refseq	NM_057093

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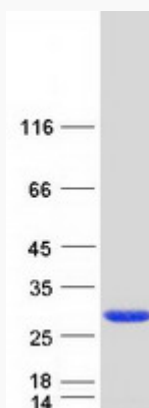
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Protein Refseq NP_476434

MIM 600836

UniProt ID P53672

SDS-PAGE



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