Recombinant Human CRYBB2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CRYBB2-3993H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CRYBB2 MS Standard C13 and N15-labeled recombinant protein (NP_000487) 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 vertebrate eye lens and maintains 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 considered 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, none in the acidic group). Beta-crystallins form aggregates of different sizes and are able to self-associate to form dimers or to form heterodimers with other beta-crystallins. This gene, a beta basic group member, is part of a gene cluster with beta-A4, beta-B1, and beta-B3. A chain-terminating mutation was found to cause type 2 cerulean cataracts.

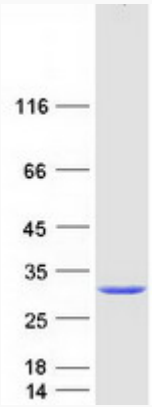
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Molecular Mass	23.4 kDa
AA Sequence	MASDHQTQAGKPQSLNPKIIIFEQENFQGHSHELNGPCPNLKETGVEKAGSVLVQA GPWVGYEQANCKGEQFVFEKGEYPRWDSWTSSRRTDSLSSLRPIKVDSQEHKIILY ENPNFTGKKMEIIDDDVPSFHAHGYQEKVSSVRVQSGTWVGYQYPGYRGLQYLLE KGDYKDSSDFGAPHPQVQSVRRIRDMQWHQRGAFHPSNTRTRPLEQKLISEEDLA ANDILDYKDDDDKV
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	CRYBB2 crystallin beta B2 [Homo sapiens (human)]
Official Symbol	CRYBB2
Synonyms	CRYBB2; crystallin, beta B2; CCA2, CRYB2, CRYB2A; beta-crystallin B2; beta-B2 crystallin; beta-crystallin Bp; eye lens structural protein; CCA2; CRYB2; CRYB2A; D22S665;
Gene ID	1415

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mRNA Refseq	NM_000496
Protein Refseq	NP_000487
MIM	123620
UniProt ID	P43320
SDS-PAGE	

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