Recombinant Human CRYBB3 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CRYBB3-2050H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CRYBB3 MS Standard C13 and N15-labeled recombinant protein (NP_004067) 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-B2. Mutations in this gene result in cataract congenital nuclear autosomal recessive type 2.

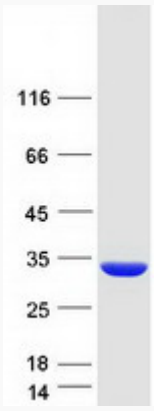
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Molecular Mass	24.2 kDa
AA Sequence	MAEQHGAPEQAAAGKSHGDLGGSYKVILYELENFQGKRCELSAECPSLTDSLLEKV GSIQVESGPWLAFESRAFRGEQFVLEKGDYPRWDAWSNSRDSDSLLSLQPLNIDSP DHKLHLFENPAFSGRKMEIVDDDVPSLWAHGFQDRVASVRAINGTWVGYEFPGYR GRQYVFERGEYRHWNEWDASQPQLQSVRRIRDQKWHKRGRFPSSTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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	CRYBB3 crystallin beta B3 [Homo sapiens (human)]
Official Symbol	CRYBB3
Synonyms	CRYBB3; crystallin, beta B3; CRYB3; beta-crystallin B3; beta-B3 crystallin; eye lens structural protein; CATCN2; MGC125772; MGC125773; MGC125774;
Gene ID	1417
mRNA Refseq	NM_004076

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Protein Refseq	NP_004067
MIM	123630
UniProt ID	P26998
SDS-PAGE	

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