Recombinant Human CRYBA1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. CRYBA1-515H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	CRYBA1 MS Standard C13 and N15-labeled recombinant protein (NP_005199) 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 acidic group member, encodes two proteins (crystallin, beta A3 and crystallin, beta A1) from a single mRNA, the latter protein is 17 aa shorter than crystallin, beta A3 and is generated by use of an alternate translation initiation site. Deletion of exons 3 and 4 causes the autosomal

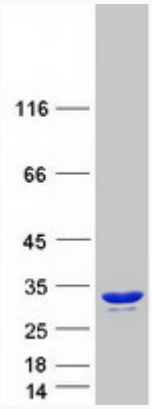
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	dominant disease 'zonular cataract with sutural opacities'.
Molecular Mass	25.1 kDa
AA Sequence	METQAEQQELETLPTTKMAQTNPTPGSLGPWKITIYDQENFQGKRMEFTSSCPNVS ERSFDNVRSLKVESGAWIGYEHTSFCGQQFILERGEYPRWDAWSGSNAYHIERLM SFRPICSANHKESKMTIFEKENFIGRQWEISDDYPSLQAMGWFNNEVGSMKIQSGA WVCYQYPGYRGYQYILECDHHGGDYKHWREWGSHAQTSQIQSIRRIQQTRTRPLE QKLISEEDLAANDILDYKDDDDKV
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	CRYBA1 crystallin beta A1 [Homo sapiens (human)]
Official Symbol	CRYBA1
Synonyms	CRYBA1; crystallin, beta A1; CRYB1; beta-crystallin A3; eye lens structural protein; crystallin, beta A3;
Gene ID	1411

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mRNA Refseq	NM_005208
Protein Refseq	NP_005199
MIM	123610
UniProt ID	P05813
SDS-PAGE	

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