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

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

## SPECIFICATION

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| **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

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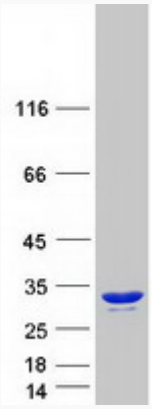
| **mRNA Refseq** | NM_005208 |
| **Protein Refseq** | NP_005199 |
| **MIM** | 123610 |
| **UniProt ID** | P05813 |
| **SDS-PAGE** |  |



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