

Recombinant Full Length Human CRYBA1 Protein, GST-tagged

Cat. No. CRYBA1-2129HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human CRYBA1 full-length ORF (NP_005199.2, 1 a.a. - 215 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	215 amino acids
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

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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 dominant disease 'zonular cataract with sutural opacities'. [provided by RefSeq, Jul 2008]

Molecular Mass 51.5 kDa

AA Sequence

METQAEQQELETLPPTTKMAQTNP TPGSLGPWKITIYDQENFQGKRMEFTSSCPNVS
ERSFDNVRS LKVESGAWIGYEHTSFCGQQFILERGEYPRWDAWSGSNAYHIERLM
SFRPICSANHKESKMTIFEKENFIGRQWEISDDYPSLQAMGWFNNEVGSMKIQSGA
WVCYQYPGYRGYQYILECDHHGGDYKHWREWGSHAQTSQIQSIRRIQQ

Applications

Enzyme-linked Immunoabsorbent Assay
Western Blot (Recombinant protein)
Antibody Production
Protein Array

Notes

Best use within three months from the date of receipt of this protein.

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

CRYBA1 crystallin, beta A1 [Homo sapiens]

Official Symbol

CRYBA1

Synonyms

CRYBA1; crystallin, beta A1; CRYB1; beta-crystallin A3; eye lens structural protein; crystallin, beta A3

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Gene ID	1411
mRNA Refseq	NM_005208
Protein Refseq	NP_005199
MIM	123610
UniProt ID	P05813

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