Recombinant Human CRYBB2, GST-tagged

Cat. No. CRYBB2-11602H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRYBB2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-205a.a.
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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Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100,15%glycerol.

GENE INFORMATION

Gene Name	CRYBB2 crystallin, beta B2 [Homo sapiens]
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
mRNA Refseq	NM_000496
Protein Refseq	NP_000487
UniProt ID	P43320
Chromosome Location	22q11.23
Pathway	Wnt Signaling Pathway NetPath, organism-specific biosystem;
Function	identical protein binding; protein homodimerization activity; structural constituent of eye lens; structural molecule activity;

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