

Recombinant Human CRYGB, GST-tagged

Cat. No. CRYGB-11604H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRYGB protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-175a.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. Gamma-crystallins are a homogeneous group of highly symmetrical, monomeric proteins typically lacking connecting peptides and terminal extensions. They are differentially regulated after early development. Four gamma-crystallin genes (gamma-A through gamma-D) and three pseudogenes (gamma-E, gamma-F, gamma-G) are tandemly organized in a genomic segment as a gene cluster. Whether due to aging or mutations in specific genes, gamma-crystallins have been involved in cataract formation.

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Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 100mM GSH and 1% Triton X-100, 15% glycerol.
GENE INFORMATION	
Gene Name	CRYGB crystallin, gamma B [Homo sapiens]
Official Symbol	CRYGB
Synonyms	CRGB_HUMAN; Crygb; Gamma-B-crystallin; Gamma-crystallin 1-2; Gamma-crystallin B; crystallin, gamma B; Gamma-crystallin 1-2; CRYGB
Gene ID	1419
mRNA Refseq	NM_005210.3
Protein Refseq	NP_005201.2
MIM	123670
UniProt ID	P07316
Chromosome Location	2q33-q35
Function	structural constituent of eye lens;

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