Recombinant Human CRYGC, His-tagged

Cat. No. CRYGC-11605H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CRYGC protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-174a.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℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	CRYGC crystallin, gamma C [Homo sapiens]
Official Symbol	CRYGC
Synonyms	CRYGC; crystallin, gamma C; CRYG3; gamma-crystallin C; gamma-C-crystallin; gamma-crystallin 3; crystallin, gamma-3; gamma-crystallin 2-1; CCL;
Gene ID	1420
mRNA Refseq	NM_020989
Protein Refseq	NP_066269
UniProt ID	P07315
Chromosome Location	2q33-q35
Function	protein binding; structural constituent of eye lens;

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