

Recombinant Human CRYGC

Cat. No. CRYGC-27305TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Recombinant fragment of Human gamma C Crystallin with N-terminal proprietary tag.
Predicted MW 36.63 kDa.

Species

Human

Source

Wheat Germ

ProteinLength

100 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. 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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Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.79% Tris HCl, 0.3% Glutathione
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	SIRSCCLIPQTVSHRLRLYEREDHKGLMMELSEDGPSIQDRFHLSEIRSLHVLEGW VLYELPNYRGRQYLLRPQEYRRCQDWGAMDAKAGSLRRVVDLY
Sequence Similarities	Belongs to the beta/gamma-crystallin family. Contains 4 beta/gamma crystallin Greek key domains.

GENE INFORMATION

Gene Name	CRYGC crystallin, gamma C [Homo sapiens]
Official Symbol	CRYGC
Synonyms	CRYGC; crystallin, gamma C; CRYG3; gamma-crystallin C;
Gene ID	1420
mRNA Refseq	NM_020989
Protein Refseq	NP_066269

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Uniprot ID	P07315
Chromosome Location	2q33-q35
Function	protein binding; structural constituent of eye lens;

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