

# Recombinant Human Crystallin, Gamma C, His-tagged

**Cat. No.** CRYGC-2396H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant humanCRYGC protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	Gamma-crystallin C, alsoknown as CRYGC, belongs to the beta/gamma-crystallin family. Mammalian lenscrystallins are divided into alpha, beta, and gamma families; beta and gammacrystallins are also considered as a superfamily. Gamma-crystallins are ahomogeneous group of highly symmetrical, monomeric proteins typically lackingconnecting peptides and terminal extensions. They are differentiallyregulated after early development. Four gamma-crystallin genes (gamma-Athrough gamma-D) and three pseudogenes (gamma-E, gamma-F, gamma-G) areorganized in a genomic segment as a gene cluster. Whether due to aging ormutations in specific genes, gamma-crystallins have been involved in cataractformation. Defects in CRYGC are a cause of cataract autosomal dominant (ADC)and cataract Coppock-like (CCL)
<b>Form</b>	Liquid. In 20 mMTris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 200mM NaCl
<b>Molecular Weight</b>	23.5kDa (198aa),confirmed by MALDI-TOF
<b>Purity</b>	> 95% by SDS -PAGE
<b>Concentration</b>	1mg/ml (determinedby Bradford assay)

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 45-1 Ramsey Road, Shirley, NY 11967, USA

**Sequences of aminoacids**

MGSSHHHHHSSGLVPRGSH MGSHEMGKITF YEDRAFQGRS YETTTDCPNL  
 QPYFSRCNSI RVESGCWMLY ERPNYQGQYLLRRGEYPDY QQWMGLSDSI  
 RSCCLIPQTV SHRLRLYERE DHKGLMMELS EDCPSIQDRF  
 HLSEIRSLHVLEGCWVLYEL PNYRGRQYLL RPQEYRRCQD WGAMDAKAGS  
 LRRVVDLY

**Storage**

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene name**

CRYGCcrystallin, gamma C [ Homo sapiens ]

**Official Symbol**

CRYGC

**Synonyms**

CRYGC; crystallin, gamma C; CRYG3; gamma-crystallin C; CATARACT,VARIABLE ZONULAR PULVERULENT; CCL; CRGC\_HUMAN; CRYG 3; Cryg 5; Cryg; CRYG3;CRYGC; Crystallin gamma 3; Crystallin gamma C; Gamma C crystallin; Gammacrystallin 2 1; Gamma crystallin 3; Gamma crystallin C; Gamma-C-crystallin;Gamma-crystallin 2-1; Gamma-crystallin 3; Gamma-crystallin C; Gammab cry;Len; OTTHUMP00000163869; 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

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<b>Chromosome Location</b>	2q33-q35
<b>Function</b>	protein binding; structural constituent of eye lens

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