

# Recombinant human Crystallin gamma C/CRYGC protein

Catalog Number: ATGP1529

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-174aa

### UniProt No.

P07315

### NCBI Accession No.

NP\_066269

### Alternative Names

Gamma-crystallin C, CCL, CRYG3, Gamma-C-crystallin, Gamma-crystallin 2-1, Gamma-crystallin 3

## PRODUCT SPECIFICATION

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### Molecular Weight

23.4 kDa (198aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 200mM NaCl

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Gamma-crystallin C, also known as CRYGC, belongs to the beta/gamma-crystallin family. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. 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 organized in a genomic segment as a gene cluster. Whether due to aging or mutations in specific

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genes, gamma-crystallins have been involved in cataract formation. Defects in CRYGC are a cause of cataract autosomal dominant (ADC) and cataract Coppock-like (CCL). Recombinant human CRYGC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

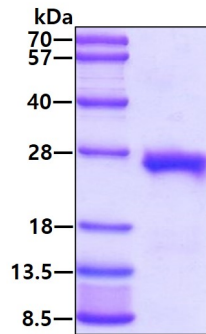
<MGSSHHHHHH SSGLVPRGSH MGSH>MGKITF YEDRAFQGRS YETTTDCPNL QPYFSRCNSI RVESGCWMLY  
ERPNIYQGQQY LLRRGEYPDY QQWMGLSDSI RSCCLIPQTV SHRLRLYERE DHKGLMMELS EDCPSIQDRF HLSEIRSLHV  
LEGCWVLYEL PNYRGRQYLL RPQEYRRCQD WGAMDAKAGS LRRVVDLY

## General References

Slingsby C, et al. (2000) Eye (London, England) 13 (Pt 3b): 395-402.  
Ren Z., et al. (2000) Hum. Genet. 106:531-537

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.