

Recombinant Human Crystallin, Gamma C, His-tagged

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

SPECIFICATION

Product Overview	Recombinant humanCRYGC protein, fused to His-tag at N-terminus, was expressed in E.coli andpurified by using conventional chromatography techniques
Species	Human
Source	E.coli
Description	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)
Form	Liquid. In 20 mMTris-HCl buffer, pH8.0, 10% glycerol, 2mM DTT, 200mM NaCl
Molecular Weight	23.5kDa (198aa),confirmed by MALDI-TOF
Purity	> 95% by SDS -PAGE
Concentration	1mg/ml (determinedby Bradford assay)

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Sequences of aminoacids

MGSSHHHHHSSGLVPRGSH MGSHMGKITF 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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Chromosome Location	2q33-q35
Function	protein binding; structural constituent of eye lens