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## Product Data Sheet

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Product Name: CRYGC Human

Cat. No.: GP23238

Batch No.: 1

**Product Data**

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Crystallin; gamma C; Gamma-crystallin 2-1; Gamma-crystallin 3; CRYG3; CCL.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSIMGKITF YEDRAFQGRS YETTTDCPNL QPYFSRCNSI RVESGCWMLY ERPNYQGQY LLRRGEYPDY QQWMGLSDSI RSCCLIPQTV SHRLRLYERE DHKGLMMELS EDCPSIQDRF HLSEIRSLHV LEGCWVLYEL PNYRGRQYLL RPQEYRRCQD WGAMDAKAGS LRRVVDLY		
Formulation	The CRYGC solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 200mM NaCl, 2mM DTT and 10% glycerol.		

**Introduction**

CRYGC is a member of the beta/gamma-crystallin family. Mammalian lens crystallins are distributed into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Gamma-crystallins are a homogeneous group of extremely symmetrical, monomeric proteins usually missing connecting peptides and terminal extensions and are differentially regulated after early development. Three pseudogenes (gamma-E,F,G) and four gamma-crystallin genes (gamma-A,B,C,D) are structured in a genomic sector as a gene cluster. Gamma-crystallins are involved in cataract formation as a result of aging or mutations in specific genes. Mutations in CRYGC result in cataract Coppock-like (CCL) and cataract autosomal dominant (ADC).

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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CRYGC Human Recombinant produced in E. coli is a single polypeptide chain containing 198 amino acids (1-174) and having a molecular mass of 23.5kDa. CRYGC is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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