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## Product Data Sheet

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Product Name: CRYGD Human  
 Cat. No.: GP23239  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Gamma-crystallin D; Gamma-D-crystallin; Gamma-crystallin 4; CRYGD; CRYG4; CCP; CACA; CCA3; cry-g-D.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSHMGKITLYEDR GFQGRHYECS SDHPNLQPYL SRCNSARVDS GCWMLYEQPN YSGLQYFLRR GDYADHQQWM GLSDSVRSCR LIPHS GSHRI RLYEREDYRG QMIEFTEDCS CLQDRFRFNE IHSLNVLEGS WVLYELSNYR GRQYLLMPGD YRRYQDWGAT NARVGLRRV IDFS.		
Formulation	CRYGD protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 5mM DTT, 10% glycerol and 200mM NaCl.		

### Introduction

CRYGD is a member of the beta/gamma-crystallin family. Crystallins are the principal structural components of the vertebrate eye lens. The mammalian lens crystallins are divided into alpha, beta, and gamma families. Gamma-crystallins are involved in cataract formation. Defects in the CRYGD gene are responsible for cataract autosomal dominant (ADC), cataract congenital non-nuclear polymorphic autosomal dominant (CCP), cataract congenital cerulean type 3 (CCA3) and cataract crystalline aculeiform (CACA).

### 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

CRYGD Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 194 amino acids (1-174 a.a.) and having a molecular mass of

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

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22.9kDa.CRYGD is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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