# Recombinant Full Length Human CRYGD Protein, GST-tagged

**Cat. No.** CRYGD-2141HF **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human CRYGD full-length ORF ( NP_008822.2, 1 a.a. - 174 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | In Vitro Cell Free System |
| **ProteinLength** | 174 amino acids |
| **Description** | Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. Mammalian lens crystallins are divided into alpha, beta, and gamma families; beta and gamma crystallins are also considered as a superfamily. Alpha and beta families are further divided into acidic and basic groups. Seven protein regions exist in crystallins: four homologous motifs, a connecting peptide, and N- and C-terminal extensions. 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 tandemly organized in a genomic segment as a gene cluster. Whether due to aging or mutations in specific genes, gamma-crystallins have been involved in cataract formation. [provided by |

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| | RefSeq, Jul 2008] |
| **Molecular Mass** | 47.1 kDa |
| **AA Sequence** | MGKITLYEDRGFQGRHYECSSDHPNLQPYLSRCNSARVDSGCWMLYEQPNYSGL QYFLRRGDYADHQQWMGLSDSVRSCRLIPHSGSHRIRLYEREDYRGQMIEFTEDC SCLQDRFRFNEIHSLNVLEGSWVLYELSNYRGRQYLLMPGDYRRYQDWGATNARV GSLRRVIDFS |
| **Applications** | Enzyme-linked Immunoabsorbent Assay<br>Western Blot (Recombinant protein)<br>Antibody Production<br>Protein Array |
| **Notes** | Best use within three months from the date of receipt of this protein. |
| **Storage** | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| **Storage Buffer** | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |

## GENE INFORMATION

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| **Gene Name** | CRYGD crystallin, gamma D [ Homo sapiens ] |
| **Official Symbol** | CRYGD |
| **Synonyms** | CRYGD; crystallin, gamma D; CRYG4; gamma-crystallin D; gamma crystallin 4; gamma-D-crystallin; gamma-crystallin 4; CCP; CACA; CCA3; cry-g-D |
| **Gene ID** | 1421 |

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| **mRNA Refseq** | NM_006891 |
| **Protein Refseq** | NP_008822 |
| **MIM** | 123690 |
| **UniProt ID** | P07320 |

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