

## Recombinant Human CRYGD Protein, Myc/DDK-tagged, C13 and N15-labeled

**Cat. No.** CRYGD-1230H    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

CRYGD MS Standard C13 and N15-labeled recombinant protein (NP\_008822) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.

#### Species

Human

#### Source

HEK293

#### 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.

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|                       |                                                                                                                                                                                                                           |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Molecular Mass</b> | 20.7 kDa                                                                                                                                                                                                                  |
| <b>AA Sequence</b>    | MGKITLYEDRGFQGRHYECSSDHPNLQPYLSRCNSARVDSGCWMLYEQPNYSGL<br>QYFLRRGDYADHQQWMGLSDSVRSCRLIPHSGSHRIRLYEREDYRGQMIEFTEDC<br>SCLQDRFRFNEIHSLNVLEGSWVLYELSNYRGRQYLLMPGDYRRYQDWGATNARV<br>GSLRRVIDFSTRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining                                                                                                                                                               |
| <b>Stability</b>      | Stable for 3 months from receipt of products under proper storage and handling conditions.                                                                                                                                |
| <b>Storage</b>        | Store at -80 centigrade. Avoid repeated freeze-thaw cycles.                                                                                                                                                               |
| <b>Concentration</b>  | 50 µg/mL as determined by BCA                                                                                                                                                                                             |
| <b>Storage Buffer</b> | 100 mM glycine, 25 mM Tris-HCl, pH 7.3.                                                                                                                                                                                   |

## GENE INFORMATION

|                        |                                                                                                                                              |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CRYGD crystallin gamma D [ Homo sapiens (human) ]                                                                                            |
| <b>Official Symbol</b> | CRYGD                                                                                                                                        |
| <b>Synonyms</b>        | CRYGD; crystallin, gamma D; CRYG4; gamma-crystallin D; gamma crystallin 4; gamma-D-crystallin; gamma-crystallin 4; CCP; CACA; CCA3; cry-g-D; |
| <b>Gene ID</b>         | 1421                                                                                                                                         |
| <b>mRNA Refseq</b>     | NM_006891                                                                                                                                    |

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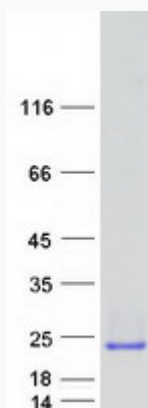
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**Protein Refseq**      [NP\\_008822](#)

**MIM**      [123690](#)

**UniProt ID**      [P07320](#)

**SDS-PAGE**



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