

Recombinant Human CRYGD, His-tagged

Cat. No. CRYGD-3634H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CRYGD protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques (1-174aa).
Species	Human
Source	Human
Description	CRYGD belongs to the beta/gamma-crystallin family. Crystallins are the dominant structural components of the vertebrate eye lens. Mammalian lens crystallins are divided into alpha, beta, and gamma families. Gamma-crystallins have been involved in cataract formation. Defects in CRYGD are a cause of cataract autosomal dominant (ADC), cataract congenital non-nuclear polymorphic autosomal dominant (CCP), cataract congenital cerulean type 3 (CCA3) and cataract crystalline aculeiform (CACA).
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 10% glycerol, 200mM NaCl
Molecular Weight	22.9kDa (194aa), confirmed by MALDI-TOF
Purity	> 95% by SDS - PAGE
Concentration	1mg/ml (determined by BCA)
Sequences of amino	MGSSHHHHHH SSGLVPRGSH MGKITLYEDR GFQGRHYECS SDHPNLQPYL

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acids

SRCNSARVDS GCWMLYEQPN YSGLQYFLRR GDYADHQQWM GLSDSVRSCR
 LIPHSGSHRI RLYEREDYRG QMIEFTEDCS CLQDRFRFNE IHSLNVLEGS
 WWLYELSNYR GRQYLLMPGD YRRYQDWGAT NARVGSLRRV IDFS

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 CRYGD crystallin, gamma D [Homo sapiens]

Official Symbol CRYGD

Synonyms CRYGD; CCP; CACA; CCA3; CRYG4; cry-g-D; crystallin, gamma D; gamma-crystallin D; OTTHUMP00000163871; gamma crystallin 4; gamma-D-crystallin; gamma-crystallin 4; cry-g-D

Gene ID 1421

mRNA Refseq NM_006891

Protein Refseq NP_008822

MIM 123690

UniProt ID P07320

Chromosome Location 2q33-q35

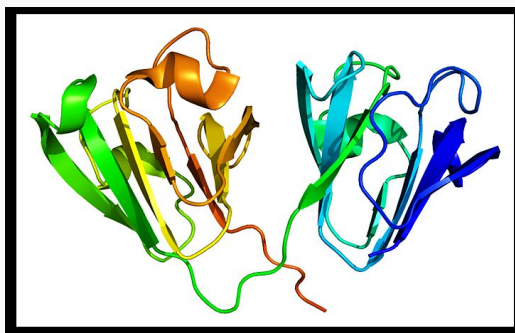
Function protein binding; structural constituent of eye lens

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