Recombinant human Crystallin gamma D/CRYGD protein

Catalog Number: ATGP1184

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-174aa

UniProt No.
P07320

NCBI Accession No.
NP_008822

Alternative Names
PCC, Gamma-D-crystallin, Gamma-crystallin D, Gamma-crystallin 4, CTRCT4, cry-g-D, CRYG4, CCP, CCA3, CACA

PRODUCT SPECIFICATION

Molecular Weight
22.9 kDa (194a) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by absorbance at 280nm)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 5mM DTT, 10% glycerol, 200mM NaCl

Purity
> 95% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE

Storage Condition
Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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). Recombinant human CRYGD protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

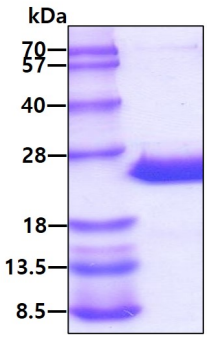
<MGSSHHHHHH SSGLVPRGSH> MGKITLYEDR GFQGRHYECS SDHPNLQPYL SRCNSARVDS GCWMLYEQPN YSGLQYFLRR GDYADHQQWM GLSDSVRSCR LIPHSGSHRI RLYEREDYRG QMIEFTEDCS CLQDRFRFNE IHSLNVLEGS WVLYELSNYR GRQYLLMPGD YRRYQDWGAT NARVGSLRRV IDFS

General References

Pande A., et al. (2001) Proc. Natl. Acad. Sci. u.S.A. 98:6116-6120
Plotnikova O.V., et al. (2007) Am. J. Hum. Genet. 81:32-43

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.