

Recombinant human Crystallin beta A4/CRYBA4 protein

Catalog Number: ATGP1167

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-196aa

UniProt No.

P53673

NCBI Accession No.

NP_001877

Alternative Names

Beta-crystallin A4, MCOPCT4, Beta-A4 crystallin

PRODUCT SPECIFICATION

Molecular Weight

24.5 kDa (216aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 0.1M NaCl, 1mM DTT

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

CRYBA4, also known as Beta-crystallin A4, belongs to the beta/gamma-crystallin family that are the dominant structural components of the vertebrate eye lens. Beta-crystallins form aggregates of different sizes and are able to self-associate to form dimers or to form heterodimers with other beta-crystallins. This gene, a beta acidic group member, is part of a gene cluster with beta-B1, beta-B2, and beta-B3. Recombinant human CRYBA4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

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Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MTLQCTKSAG PWKMVVWDED GFQGRRHEFT AECPSVLELG FETVRSCLKVL
SGAWVGFEHA GFQGQYILE RGEYPSWDAW GGNTAYPAER LTSFRPAACA NHRDSRLTIF EQENFLGKKG ELSDDYPSLQ
AMGWEGNEVG SFHVHSGAWV CSQFPGYRGF QYVLECDHHS GDYKHFREWG SHAPTFQVQS IRRIQQ

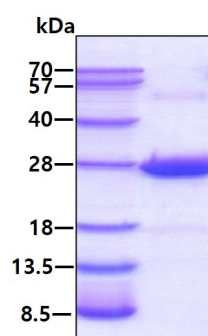
General References

Lampi KJ. et al. (1997) J Biol Chem. 272:2268-2275.

Billingsley G. et al. (2006) Am J Hum Genet. 79:702-709

DATA

SDS-PAGE



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