

Recombinant mouse Crystallin gamma D/CRYGD protein

Catalog Number: ATGP3670

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-174aa

UniProt No.

P04342

NCBI Accession No.

NP_031802

Alternative Names

Gamma-crystallin D, Aey4, Cryg-1, DGcry-1, Lop12

PRODUCT SPECIFICATION

Molecular Weight

23.5 kDa (197aa) Confirmed by MALDI-TOF

Concentration

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

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 10% glycerol

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, also known as gamma-crystallin D, 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 mouse Crygd protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

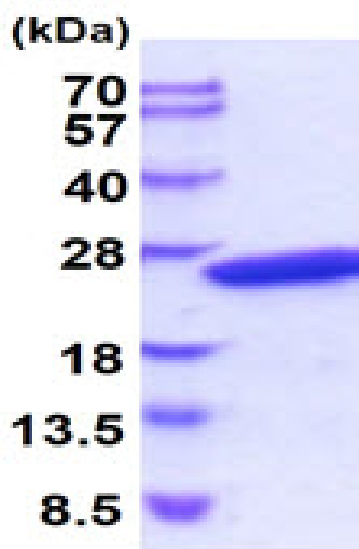
MGSSHHHHHH SSSLVPRGSH MGSMGKITFY EDGRGFQGRHY ECSTDHSLNQLQ PYFSRCNSVR VDSGCWMLYE
QPNFTGCQYF LRRGDYPDYQ QWMGFSDSVR SCRLIPHAGS HRIRLYEREE YRGQMIEFTE DCPSLQDRFH FNEIYSLNVL
EGCWVLYDMT NYRGRQYLLR PGEYRRYHDW GAMNARVGSL RRVMDFY

General References

Pande A., et al. (2001) Proc. Natl. Acad. Sci. U.S.A. 98(11):6116-20
Plotnikova O.V., et al. (2007) Am. J. Hum. Genet. 81(1):32-43

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)