Recombinant human Crystallin beta B1/CRYBB1 protein

Catalog Number: ATGP0584

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-252aa

UniProt No.
P53674

NCBI Accession No.
NP_001878

Alternative Names
Crystallin beta B1, Beta-B1 crystallin, Beta-crystallin B1, CATCN3, CTRCT17

PRODUCT SPECIFICATION

Molecular Weight
29.1 kDa (260aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT

Purity
> 90% 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
Crystallins are the major structural proteins of the vertebrate eye lens, where they maintain the transparency and refractive index of the lens. Crystallins are divided into alpha, beta, and gamma families. Since lens central fiber cells lose their nuclei during development, these crystallins are made and then retained throughout life, making them extremely stable proteins. CRYBB1 is a beta basic group member and undergoes extensive cleavage at its N-terminal extension during lens maturation. Recombinant human CRYBB1 protein, fused to His-tag at C-terminus was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

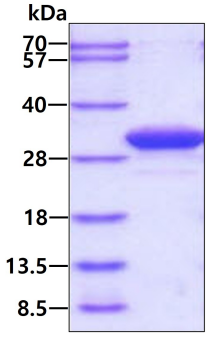
MSQAAKASAS ATVAVNPGPD TKGKGAPPAG TSPSPGTTLA PTTVPITSAK AAELPPGNYR LVVFELENFQ GRRAEFSGEC SNLADRGFDR VRSIIVSAGP WVAFEQSNFR GEMFILEKGE YPRWNTWSSS YRSDRLMSFR PIKMDAQEHK ISLFEGANFK GNTIEIQGDD APSLWVYGFS DRVGSVKVSS GTWVGYQYPG YRGYQYLLEP GDFRHWNEWG AFQPQMQSLR RLRDKQWHLE GSFPVLATEP PK<RSHHHHHH>

General References

Hulsebos TJ., et al. (1995) Genomics. 29(3):712-8.
Annunziata O., et al. (2005) Biochemistry. 44(4):1316-28.

DATA

SDS-PAGE



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