Recombinant human Crystallin mu/CRYM protein

Catalog Number: ATGP0559

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-314aa

UniProt No.
Q14894

NCBI Accession No.
NP_001879

Alternative Names
Crystallin mu, Ketimine reductase mu-crystallin, NADP-regulated thyroid-hormone-binding protein, Thiomorpholine-carboxylate dehydrogenase, mu-crystallin, DFNA40, THBP

PRODUCT SPECIFICATION

Molecular Weight
35.9 kDa (334aa) confirmed by MALDI-TOF

Concentration
1mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 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
Crystallin mu, also known as CRYM, is a member of the crystallin protein family. Crystallins are separated into two classes, taxon-specific and ubiquitous. This gene encodes a taxon-specific crystallin protein. The human CRYM gene maps to chromosome 16p13. 11, and encodes a protein that is expressed in neural tissue, muscle, and kidney. unlike other crystallins, CRYM does not perform a structural role in lens tissue, but rather it binds NADPH and thyroid hormone, which indicates that it may have other regulatory or developmental functions.

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

Amino acid Sequence

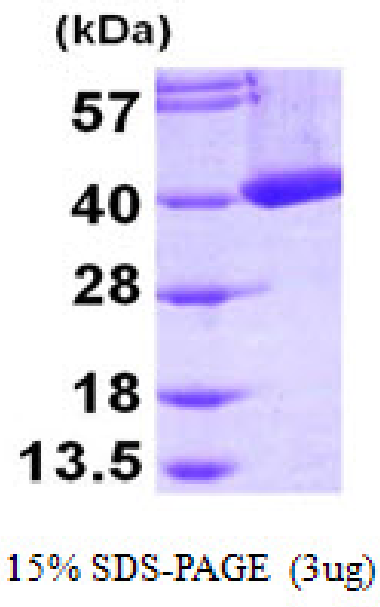
MGSSHHHHHH SSGLVPRGSH MSRVPAFLSA AEVEEHLRSS SLLIPPLETA LANFSSGPEG GVMQPVRTVV PVTKHRGYLG VMPAYSAAED ALTTKLVTFY EDRGITSVVP SHQATVLLFE PSNGTLLAVM DGNVITAKRT AAVSAIATKF LKPPSSEVLC ILGAGVQAYS HYEIFTEQFS FKEVRIWNRT KENAEKFADT VQGEVRVCSS VQEAVAGADV IITVTLATEP ILFGEWVKPG AHINAVGASR PDWRELDDEL MKEAVLYVDS QEAALKESGD VLLSGAEIFA ELGEVIKGVK PAHCEKTTVF KSLGMAVEDT VAAKLIYDSW SSGK

General References

Kim RY., et al. (1992). Proc Natl Acad Sci uSA. 89(19):9292-6.
Muaders NW., et al. (1988) J Biol Chem. 263:15462-15466.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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