Recombinant human Crystallin zeta/CRYZ protein

Catalog Number: ATGP2750

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-329aa

UniProt No.
Q08257

NCBI Accession No.
NP_001123514

Alternative Names
Quinone oxidoreductase, NADPH:quinone reductase, Zeta-crystallin

PRODUCT SPECIFICATION

Molecular Weight
37.6 kDa (352aa) confirmed by MALDI-TOF

Concentration
0.5mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 20% glycerol, 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
Crystallins are separated into two classes: taxon-specific, or enzyme, and ubiquitous. The latter class constitutes the major proteins of vertebrate eye lens and maintains the transparency and refractive index of the lens. The former class is also called phylogenetically-restricted crystallins. This gene encodes a taxon-specific crystallin protein which has NADPH-dependent quinone reductase activity distinct from other known quinone reductases. It lacks alcohol dehydrogenase activity although by similarity it is considered a member of the zinc-containing alcohol dehydrogenase family. unlike other mammalian species, in humans, lens expression is low. Recombinant

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

Amino acid Sequence

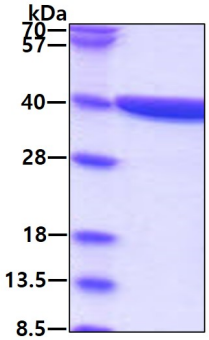
<MGSSHHHHHH SSGLVPRGSH MGS>MATGQKL MRAVRVFEFG GPEVLKLRSD IAVPIPKDHQ VLIKVHACGV NPVETYIRSG TYSRKPLLPY TPGSDVAGVI EAVGDNASAF KKGDRVFTSS TISGGYAEYA LAADHTVYKL PEKLDFKQGA AIGIPYFTAY RALIHSACVK AGESVLVHGA SGGVGLAACQ IARAYGLKIL GTAGTEEGQK IVLQNGAHEV FNHREVNYID KIKKYVGEKG IDIIIEMLAN VNLSKDLSLL SHGGRVIVVG SRGTIEINPR DTMAKESSII GVTLFSSTKE EFQQYAAALQ AGMEIGWLKP VIGSQYPLEK VAEAHENIIH GSGATGKMIL LL

General References

Porte S., Valencia E., et al. (2009) J. Biol. Chem. 284:17194-17205

DATA

SDS-PAGE



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