

Recombinant human Crystallin zeta like 1/CRYZL1 protein

Catalog Number: ATGP0550

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-349aa

UniProt No.

O95825

NCBI Accession No.

NP_665857

Alternative Names

Zeta crystallin homolog, Quinone reductase like 1, Quinone oxidoreductase-like protein 1, Quinone oxidoreductase like 1, QOH-1, 4P11

PRODUCT SPECIFICATION

Molecular Weight

40.8 kDa (369aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 2mM DTT, 0.1M NaCl, 20% 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

CRYZL1, also known as quinone oxidoreductase, is a protein that has sequence similarity to zeta crystalline. This Protein is present at low levels in human lens tissue. It has NADPH-dependent quinone reductase activity distinct from other known quinone reductases, and may play a role as a pH response element-binding protein. CRYZL1 is expressed at various levels in heart, brain, skeletal muscle, kidney, pancreas, liver and lung. Recombinant human CRYZL1 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

Recombinant human Crystallin zeta like 1/CRYZL1 protein

Catalog Number: ATGP0550

conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHH SSGLVPRGSH> MKGLYFQQSS TDEEITVFQ EKEDLPVTEDE NFKVLQVKAC ALSQINTKLL
AEMKMKKDLF PVGREIAGIV LDVGSKVSFF QPDDEVVIGL PLDSEDPGLC EVVRVHEHYL VHKPEKVTWT EAAGSIRDGV
RAYTALHYLS HLSPGKSVLI MDGASAFGTI AIQLAHHRGA KVISTACSLE DKQCLERFRP PIARVIDVSN GKVHVAESCL
EETGGLGVDI VLDAGVRLYS KDDEPAVKLQ LLPHKHDIIT LLGVGGHWVT TEENLQLDPP DSHCLFLKGA TLAFLNDEVW
NLSNVQQGKY LCILKDVMEK LSTGVFRPQL DEPIPLYEAK VSMEAVQKNQ GRKKQVVQF

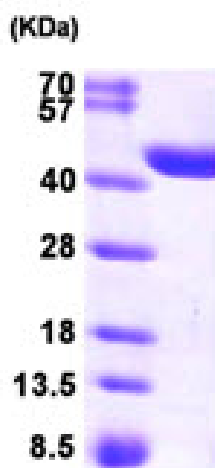
General References

Cai SF., et al. (2009) Molecules. 14(8):2935-46.

Tauraite D., et al. (2009) Chem Phys Lipids. 159(1):45-50.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)