

Recombinant human ALDOC protein

Catalog Number: ATGP3709

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-364aa

UniProt No.

P09972

NCBI Accession No.

NP_005156

Alternative Names

Fructose biphosphate aldolase C, ALDC

PRODUCT SPECIFICATION

Molecular Weight

39.4 kDa (364aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

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

Purity

> 90% by SDS-PAGE

Biological Activity

Specific activity is > 6unit/mg, one unit will convert 1.0 umol of fructose 1,6-diphosphate to dihydroxyacetone phosphate and glyceraldehydes 3- phosphate per minute at pH 7.5 at 37C

Tag

Non-Tagged

Application

Enzyme Activity, 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

ALDOC, also as known as fructose biphosphate C, is a member of the class 1 fructose-biphosphate aldolase family. This protein is a ubiquitous enzyme that catalyzes the reversible aldol cleavage of fructose-biphosphate and fructose 1-phosphate to diglyoxyacetone phosphate and either glyceral-dehyde-3-phosphate or

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glyceraldehyde, respectively. It is expressed specifically in the hippocampus and Purkinje cells of the brain. Recombinant human ALDOC was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

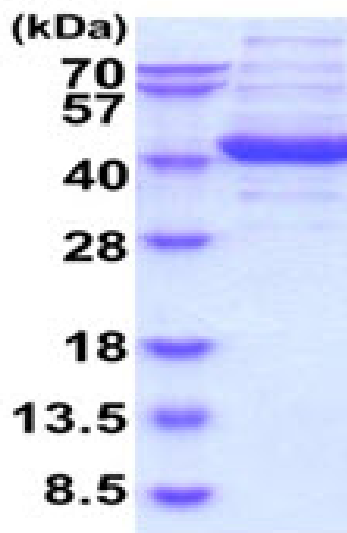
MPHSYPALSA EQKKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVE NTEENRRLYR QVLFSADDRV KKCIGGVIFV
HETLYQKDDN GVPFVRTIQD KGIVVGIKVD KGVVPLAGTD GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS
ALAILENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLK PNMVTPGHAC
PIKYTPEEIA MATVTALRRT VPPAVPGVTF LSGGQSEEEA SFNLNAINRC PLPRPWALTF SYGRALQASA LNAWRGQRDN
AGAATEEFIK RAEVNGLAAQ GKYEGSGEDG GAAAQSLYIA NHAY

General References

Caspi M., et al. (2014) *Mol Cancer*. 13:164.
Arakaki TL., et al. (2004) *Protein Sci*. 13(12): 3077-84

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)