

# Recombinant human ALDOC protein

Catalog Number: ATGP3393

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-364aa

### UniProt No.

P09972

### NCBI Accession No.

NP\_005156.1

### Alternative Names

Fructose biphosphate aldolase C, ALDC, ALDC, ALDO C, aldolase, ALDOC\_HUMAN, Aldolase 3, Aldolase C Fructose biphosphate, Brain type aldolase, Brain-type aldolase, Fructoaldolase C, Fructose 1 6 biphosphate triosephosphate lyase, Fructose biphosphate aldolase C, Fructose-biphosphate aldolase C

## PRODUCT SPECIFICATION

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### 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

### Tag

Non-Tagged

### 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

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### 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 dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehyde, respectively. It is expressed specifically in the hippocampus and Purkinje cells of the brain.

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Recombinant human ALDOC was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MPHSYPALSA EQKKE LSDIA LRIVAPGKGI LAADES VGSM AKRLSQIGVE NTEENRRLYR QVLFSADDRV KKCIGGVIFV  
HETLYQKDDN GVPFVRTIQD KGIVVGIKVD KGVVPLAGTD GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS  
ALAI LENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLK PNMVTPGHAC  
PIKYTP EEIA MATVTALRRT VPPAVPGVTF LSGGQSEEEA SFNLNAINRC PLPRPWALTF SYGRALQASA LNAWRGQRDN  
AGAATEEFIK RAEVNGLAAQ GKYEGSGEDG GAAAQSLYIA NHAY

## General References

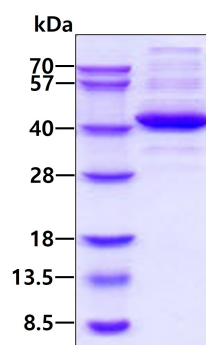
Rolland T. et al., (2014) *Cell*. 159(5):1212-26.

Caspi M. et al., (2014) *Mol Cancer*. 13:164.

Arakaki TL. et al., (2004) *Protein Sci*. 13(12): 3077-84

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.