# Recombinant human ALDOC protein

Catalog Number: ATGP3393

## PRODUCT INFORMATION

**Expression system**
E.coli

**Domain**
1-364aa

**UniProt No.**
P09972

**NCBI Accession No.**
NP_005156.1

**Alternative Names**
Fructose bisphosphate aldolase C, ALDC, ALDC, ALDO C, aldoc, ALDOC_HUMAN, Aldolase 3, Aldolase C Fructose bisphosphate, Brain type aldolase, Brain-type aldolase, Fructoaldolase C, Fructose 1 6 biphosphate triosephosphate lyase, Fructose bisphosphate aldolase C, Fructose-bisphosphate aldolase C

## 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

**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

**Description**
ALDOC, also as known as fructose bisphosphate 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-bisphosphate and fructose 1-phospate to digydroxyacetone phosphate and either glyceral-dehyde-3-phosphate or glyceraldegyde, 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**

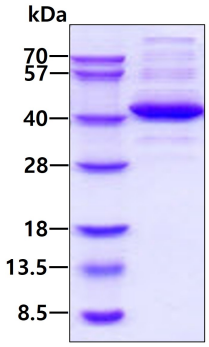
MPHSYPALSA EQKKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVE NTEENRRLYR QVLFSADDRV KKCIGGVIFF HETLYQKDDN GVPFVRTIQD KGIVVGIKVD KGVVPLAGTD GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS ALAILENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLLK PNMVTPGHAC PIKYTPEEIA MATVTALRRT VPPAVPGVTF LSGGQSEEEA 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**




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