

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 biphosphate aldolase C, ALDC, ALDC, ALDO C, aldoc, 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

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 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 digydroxyacetone phosphate and either glyceral-dehyde-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 LAADESVGSM 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

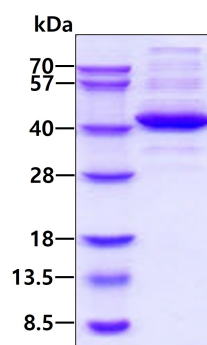
Rolland T. et al., (2014) *Cell*. 159(5):1212-26.

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

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

DATA

SDS-PAGE



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