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

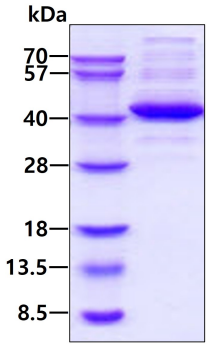
MPHSYPALSA EQKKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVE NTEENRRLYR QVLFSADDRV KKCIGGVIFF HETLYQKDDN GVPFVRTIQD KGIVVGIKVD KGVVPLAGTD GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS ALAILENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLLK PNMVTPGHAC PIKYTPEEIA MATVTALRRT VPPAVPGVTF LSGGQSEEEA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