

Recombinant human ALDOC protein

Catalog Number: ATGP0980

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-364aa

UniProt No.

P09972

NCBI Accession No.

NP_005156

Alternative Names

Aldolase C fructose-bisphosphate., Aldolase C, fructose-bisphosphate., ALDC

PRODUCT SPECIFICATION

Molecular Weight

41.6 kDa (384aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 2mM DTT, 0.1M NaCl.

Purity

> 95% by SDS-PAGE

Tag

His-Tag

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 known as aldolase C, is a member of the class I fructose-biphosphate aldolase family. This protein is a glycolytic enzyme that catalyzes the reversible aldol cleavage of fructose-1, 6-biphosphate and fructose 1-phosphate to dihydroxyacetone phosphate and either glyceraldehyde-3-phosphate or glyceraldehydes respectively. It is expressed specifically in the hippocampus and Purkinje cells of the brain. Recombinant human ALDOC protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

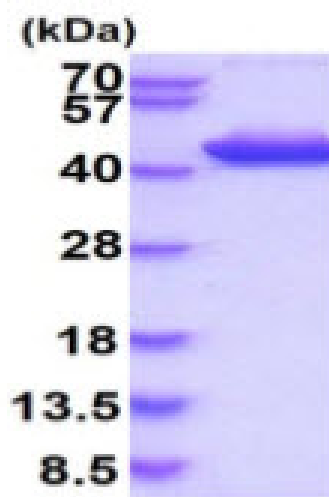
MGSSHHHHHH SSGLVPRGSH MPHSYPALSA EQKKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVE NTEENRRLYR
QVLFSADDRV KKCIGGVIFF HETLYQKDDN GVPFVRTIQD KGIVVGKVD KGVVPLAGTD GETTTQGLDG LSERCAQYKK
DGADFAKWRC VLKISERTPS ALAILENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH
HVYLEGTLLK PNMVTPGHAC PIKYTPEEIA MATVTALRRT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

General References

Wang CF., et al. (2007) Anim Genet. 38(3):203-10.
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)