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## **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**

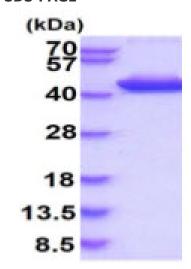
MGSSHHHHHH SSGLVPRGSH MPHSYPALSA EQKKELSDIA LRIVAPGKGI LAADESVGSM AKRLSQIGVE NTEENRRLYR QVLFSADDRV KKCIGGVIFF HETLYQKDDN GVPFVRTIQD KGIVVGIKVD KGVVPLAGTD GETTTQGLDG LSERCAQYKK DGADFAKWRC VLKISERTPS ALAILENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH HVYLEGTLLK PNMVTPGHAC PIKYTPEEIA MATVTALRRT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

#### **General References**

Wang CF., et al. (2007) Anim Genet. 38(3):203-10. Arakaki TL., et al. (2004) Protein Sci. 13(12):3077-84.

## **DATA**





15% SDS-PAGE (3ug)

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