

# Recombinant human Aldolase A/ALDOA protein

Catalog Number: ATGP0477

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-364aa

### UniProt No.

P04075

### NCBI Accession No.

NP\_908930

### Alternative Names

Fructose-bisphosphate aldolase A, Lung cancer antigen NY-LU-1, Muscle-type aldolase, ALDA

## PRODUCT SPECIFICATION

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### Molecular Weight

41.5 kDa (384aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 100mM NaCl, 10% glycerol

### Purity

> 95% by SDS-PAGE

### Biological Activity

Specific activity is > 10unit/mg, one unit will convert 1.0 umol of fructose 1,6-diphosphate to dihydroxyacetone phosphate and glyceraldehydes 3-phosphate per minute at pH 7.5 at 37C.

### Tag

His-Tag

### Application

SDS-PAGE, Enzyme Activity

### 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

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### Description

Fructose bisphosphate aldolase A, also known as Aldolase A is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1, 6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. It is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression

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is repressed in adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue. Deficiency has been associated with myopathy and hemolytic anemia. Recombinant human Aldolase A, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

## Amino acid Sequence

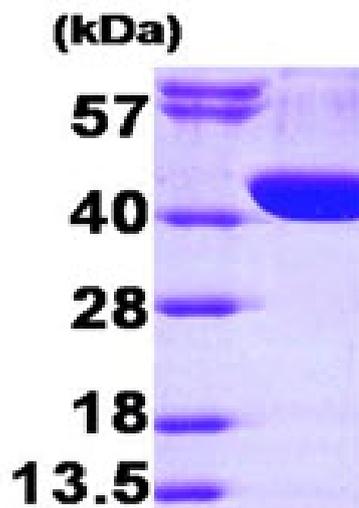
<MGSSHHHHHH SSGLVPRGSH> MPYQYPALTP EQKELSDIA HRIVAPGKGI LADESTGSI AKRLQSIGTE NTEENRRFYR  
QLLLTADDRV NPCIGGVILF HETLYQKADD GRPFPQVIKS KGGVVGIVKVD KGVVPLAGTN GETTTQGLDG LSERCAQYKK  
DGADFAKWRC VLKIGEHTPS ALAIMENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH  
HIYLEGTLK PNMVTPGHAC TQKFSHEEIA MATVTALRRT VPPAVTGITF LSGGQSEEEA SINLNAINKC PLLKPWALTF  
SYGRALQASA LKAWGGKKEN LKAAQEEYVK RALANSLACQ GKYPSPGQAG AAASESLFVS NHAY

## General References

Pfleiderer G., et al. (1975) Beitr Pathol. 156(3):266-79.  
Kishi H., et al. (1987) Proc Natl Acad uSA. 84(23):8623-7.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)