

Recombinant human Aldolase A/ALDOA protein

Catalog Number: ATGP0477

PRODUCT INFORMATION

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

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

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

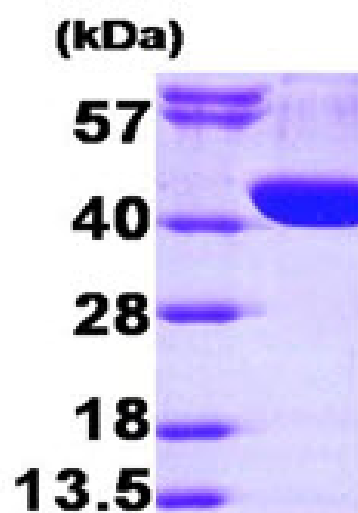
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DGADFAKWRC VLKIGEHTPS ALAIMENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK RCQYVTEKVL AAVYKALSDH
HIYLEGTLLK PNMVTPGHAC TQKFSHEEIA MATVTALRRT VPPAVTGITF LSGGQSEEEA SINLNAINKC PLLKPWALTF
SYGRALQASA LKAWGGKKEN LKAAQEEYVK RALANSLACQ GKYPSPGQAG AAASESLFVS NHAY

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)