

Recombinant Human ALDOA

Cat. No. ALDOA-26497TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Aldolase expressed in <i>Saccharomyces cerevisiae</i> ; 364 amino acids, MWt 39.4 kDa. Protein is tagged with 26 kDa proprietary tag.
Species	Human
Description	The protein encoded by this gene, Aldolase A (fructose-bisphosphate aldolase), is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Three aldolase isozymes (A, B, and C), encoded by three different genes, are differentially expressed during development. Aldolase A is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression is repressed in adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue. Aldolase A deficiency has been associated with myopathy and hemolytic anemia. Alternative splicing and alternative promoter usage results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 3 and 10.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 30% Glycerol, 0.5% Triton-X-100, 50mM HEPES, 30mM Glutathione, 100mM Sodium chloride, 1mM DTT, pH 7.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

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Sequences of amino acids

MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSI AKRLQSIGTENTENRRF
 YRQLLLTADDRVNPCIGGVI LFHETLYQKADDGRPPQVIKSKGGVVGIVDKGVVP
 LAGTNGETTTQGLDGLSERCAQYKKDGADFAKWRCVLKIGE HTPSALAIMENANVL
 ARYASICQQNGIVPIVEPEILPD GDHDLKRCQYVTEKVLAAVYKALSDHHIYLEGTLL
 KPNMV TPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLS GGQSEEEASINLNA
 INKCPLLKPWALTFSYGRALQASA LKAWGGKKENLKAAQEEYVKRALANSLACQ GK
 YTPSGQAG AAASESLFVSNHAY

Full Length

Full L.

GENE INFORMATION
Gene Name

ALDOA aldolase A, fructose-bisphosphate [Homo sapiens]

Official Symbol

ALDOA

Synonyms

ALDOA; aldolase A, fructose-bisphosphate; fructose-bisphosphate aldolase A;

Gene ID

226

mRNA Refseq

NM_000034

Protein Refseq

NP_000025

MIM

103850

Uniprot ID

P04075

Chromosome Location

16p11.2

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Pathway	Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem;
Function	actin binding; cytoskeletal protein binding; fructose binding; fructose-bisphosphate aldolase activity; identical protein binding;

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