

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	<p>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.</p>
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 AKRLQSIGTENTEENRRF
 YRQLLLTADDRVNPCIGGVI LFHETLYQKADDGRPFQVIKSKGGVVGIVDKGVVP
 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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