

## Recombinant Human ALDOA, His-tagged

Cat. No. ALDOA-26500TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length protein, corresponding to amino acids 1-364 of Human Aldolase with an N-terminal His tag; Predicted MWt 40kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-364 a.a.
<b>Description</b>	<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>
<b>Conjugation</b>	HIS
<b>Form</b>	Lyophilised:Reconstitution with 71 µl aqua dest

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Storage buffer</b>	Preservative: None Constituents: 0.5% Trehalose, 6M Urea, 100mM Sodium hydrogen phosphate, 10mM Sodium chloride, pH 4.5
<b>Storage</b>	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
<b>Sequences of amino acids</b>	MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSI AKRLQSIGTENTEENRRF YRQLLLTADDRVNPCIGGVI LFHETLYQKADDGRFPFQVIKSKGGVVGIVDKGVVP L AGTNGETTTQGLDGLSERCAQYKKDGADFAKWRCVLKI GEHTPSALAIMENANV LARYASICQQNGIVPIVEPEILPD GDHDLKRCQYVTEKVLAAVYKALSDHHIYLEGTL KPN MVTPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITF LSGGQSEEEASINLNA INKCPLLKPWALTFSYGRALQA SALKAWGGKKENLAAQEEYVKRALANSLACQ GK YTPS GQAGAAASESLFVSNHAY
<b>Full Length</b>	Full L.

## GENE INFORMATION

<b>Gene Name</b>	ALDOA aldolase A, fructose-bisphosphate [ Homo sapiens ]
<b>Official Symbol</b>	ALDOA
<b>Synonyms</b>	ALDOA; aldolase A, fructose-bisphosphate; fructose-bisphosphate aldolase A;
<b>Gene ID</b>	226
<b>mRNA Refseq</b>	NM_000034
<b>Protein Refseq</b>	NP_000025
<b>MIM</b>	103850

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<b>Uniprot ID</b>	P04075
<b>Chromosome Location</b>	16p11.2
<b>Pathway</b>	Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, organism-specific biosystem;
<b>Function</b>	actin binding; cytoskeletal protein binding; fructose binding; fructose-bisphosphate aldolase activity; identical protein binding;

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