

Recombinant Human ALDOA, His-tagged

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

SPECIFICATION

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

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

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Uniprot ID	P04075
Chromosome Location	16p11.2
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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