Recombinant Human ALDOB

Cat. No. ALDOB-26495TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human ALDOB with an N terminal proprietary tag; Predicted MWt 34.76 kDa.
Species	Human
Source	Wheat Germ
ProteinLength	83 amino acids
Description	Fructose-1,6-bisphosphate aldolase (EC 4.1.2.13) is a tetrameric glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Vertebrates have 3 aldolase isozymes which are distinguished by their electrophoretic and catalytic properties. Differences indicate that aldolases A, B, and C are distinct proteins, the products of a family of related housekeeping genes exhibiting developmentally regulated expression of the different isozymes. The developing embryo produces aldolase A, which is produced in even greater amounts in adult muscle where it can be as much as 5% of total cellular protein. In adult liver, kidney and intestine, aldolase A expression is repressed and aldolase B is produced. In brain and other nervous tissue, aldolase A and C are expressed about equally. There is a high degree of homology between aldolase A and C. Defects in ALDOB cause hereditary fructose intolerance.
Molecular Weight	34.760kDa inclusive of tags

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	DSQGKLFRNILKEKGIVVGIKLDQGGAPLAGTNKETTIQGLDGLSERCAQYKKDGVD FGKWRAVLRIADQCPSSLAIQENANA
Sequence Similarities	Belongs to the class I fructose-bisphosphate aldolase family.

GENE INFORMATION

Gene Name	ALDOB aldolase B, fructose-bisphosphate [Homo sapiens]
Official Symbol	ALDOB
Synonyms	ALDOB; aldolase B, fructose-bisphosphate; fructose-bisphosphate aldolase B;
Gene ID	229
mRNA Refseq	NM_000035
Protein Refseq	NP_000026
MIM	612724
Uniprot ID	P05062

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Chromosome Location	9q21.3-q22.2
Pathway	FOXA2 and FOXA3 transcription factor networks, organism-specific biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Fructose catabolism, organism-specific biosystem; Gluconeogenesis, organism-specific biosystem;
Function	ATPase binding; cytoskeletal protein binding; fructose binding; fructose-bisphosphate aldolase activity; fructose-bisphosphate aldolase activity;

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