

Recombinant Human ALDOB Protein, GST-tagged

Cat. No. ALDOB-456H Lot. No. (See product label)

SPECIFICATION

Product Overview Human ALDOB full-length ORF (AAH29399, 1 a.a. - 316 a.a.) recombinant protein with GST-tag at N-terminal.

Species Human

Source Wheat Germ

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. [provided by RefSeq, Dec 2008]

Molecular Mass 60.5 kDa

AA Sequence MAHRFPALTQEQQKELSEIAQSIVANGKGI LA ADES VGT MGNRLQRIKVENTEENRR

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QFREILFSVDSSINQSIGGVILFHETLYQKDSQGKLFERNILKEKGIVVGIKLDQGGAPLA
 GTNKETTIQGLDGLSERCAQYKKGVDGKWRVAVLRIADQCPSSLPIQENANALAR
 YASICQQNGLVPIVEPEVIPDGDHLEHCQYVTEKVLAAVYKALNDHHVYLEGTLKLP
 NMVTAGHACTKKYTPEQVAMATVTALHRTVPAAVPGICFLSGGMSEEDATLNLNAIN
 LCPLPKPWKLSFSGVARLQTRRQPRLL

Applications Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name [ALDOB aldolase B, fructose-bisphosphate \[Homo sapiens \]](#)

Official Symbol [ALDOB](#)

Synonyms ALDOB; aldolase B, fructose-bisphosphate; fructose-bisphosphate aldolase B;
 aldolase 2; liver-type aldolase; aldolase B, fructose-bisphosphatase; ALDB; ALDO2;

Gene ID [229](#)

mRNA Refseq [NM_000035](#)

Protein Refseq [NP_000026](#)

MIM [612724](#)

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UniProt ID

P05062

12.5% SDS-PAGE Stained with Coomassie Blue.

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