

Recombinant Full Length Human ALDOB Protein, GST-tagged

Cat. No. ALDOB-1534HF **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	In Vitro Cell Free System
ProteinLength	316 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. [provided by RefSeq, Dec 2008]
Molecular Mass	60.5 kDa

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AA Sequence	MAHRFPALTQ EQKKELSEIA QSIVANGKGI LAADESVGTM GNRLQRIKVE NTEENRRQFR EILFSVDSSI NQSIGGVILF HETLYQKDSQ GKLFRNILKE KGIVVGIKLD QGGAPLAGTN KETTIQGLDG LSERCAQYKK DGVDGKWRA VLRIADQCPS SLPIQENANA LARYASICQQ NGLVPIVEPE VIPDGDHDL HCQYVTEKVL AAVYKALNDH HVYLEGTLLK PNMVTAGHAC TKKYTPEQVA MATVTALHRT VPAAVPGICF LSGGMSEEDA TLNLNAINLC PLPKPWKLSF SGVARLQTRR QPRRL
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
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

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