

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	MAHRFPALTQEQQKELSEIAQSIVANGKGILAADESVGTMGNRLQRIKVENTEENRR

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QFREILFSVDSSINQSIGGVILFHETLYQKDSQGKLFERNILKEKGIVVGIKLDQGGAPLA
GTNKETTIQGLDGLSERCAQYKKDGVDFGKWRAVLRIADQCPSSLPIQENANALAR
YASICQQNGLVPIVEPEVIPDGDHDLHCQYVTEKVLAAVYKALNDHHVYLEGTLLKP
NMVTAGHACTKKYTPEQVAMATVTALHRTVPAAVPGICFLSGGMSEEDATLNLNAIN
LCPLPKPWKLSFSGVARLQTRRQPRRL

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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