

Recombinant Human ALDOB, His-tagged

Cat. No. ALDOB-9567H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDOB protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-316a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing

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cycles.

Storage Buffer

1M PBS (58mM Na₂HPO₄, 17mM NaH₂PO₄, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol.

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

UniProt ID

P05062

**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; Gluconeogenesis,

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oxaloacetate => fructose-6P, organism-specific biosystem;

Function

ATPase binding; cytoskeletal protein binding; fructose binding; fructose-bisphosphate aldolase activity; fructose-bisphosphate aldolase activity; identical protein binding; lyase activity; protein binding;

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