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℃. Avoid repeated freezing and thawing

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

	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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