

Recombinant Human ALDOB Protein, His tagged

Cat. No. ALDOB-1918H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDOB Protein with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-364 aa
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.
Form	Sterile PBS, pH7.4
Molecular Mass	42 kDa

 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

AASequence	MGSSHHHHHSSGLVPRGSHMGSHMAHRFPALTQEQQKELSEIAQSIVANGKGILA ADESVGTMGNRLQRIKVENTEENRRQFREILFSVDSSINQSIGGVILFHETLYQKDSQ GKLFRNILKEKGIVVGIKLDQGGAPLAGTNKETTIQGLDGLSERCAQYKKDGVDFGK WRAVLRIADQCPSSLAIQENANALARYASICQQNGLVPIVEPEVIPDGDHDLHCQY VTEKVLAAVYKALNDHHVYLEGTLLKPNMVTAGHACTKKYTPEQVAMATVTALHRT VPAAVPGICFLSGGMSEEDATLNLNAINLCPLPKPWKLSFSYGRALQASALAAWGG KAANKEATQEAFMKRAMANCQAAKGQYVHTGSSGAASTQSLFTACYTY
Endotoxin	< 1 EU/μg by LAL
Purity	> 90% by SDS-PAGE
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/mL by BCA
GENE INFORMATION	
Gene Name	ALDOB aldolase B, fructose-bisphosphate [Homo sapiens (human)]
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

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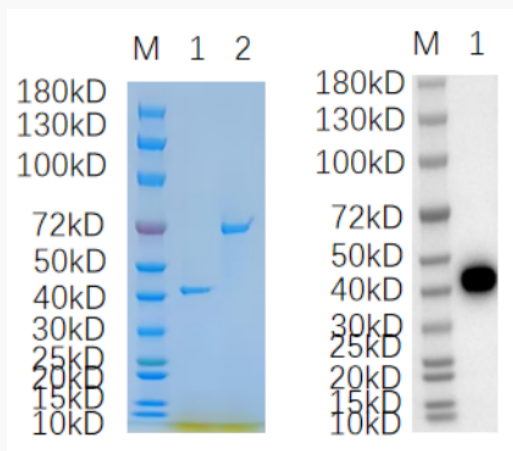
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MIM 612724

UniProt ID P05062

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified ALDOB. 1. ALDOB: 1 μ g 2. BSA: 1 μ g

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