

Recombinant Human ALDOA Protein, His-tagged

Cat. No. ALDOA-384H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDOA(Met1-Tyr364), transcript variant 1, fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-364 a.a.
Description	The protein encoded by this gene, Aldolase A (fructose-bisphosphate aldolase), is a glycolytic enzyme that catalyzes the reversible conversion of fructose-1,6-bisphosphate to glyceraldehyde 3-phosphate and dihydroxyacetone phosphate. Three aldolase isozymes (A, B, and C), encoded by three different genes, are differentially expressed during development. Aldolase A is found in the developing embryo and is produced in even greater amounts in adult muscle. Aldolase A expression is repressed in adult liver, kidney and intestine and similar to aldolase C levels in brain and other nervous tissue. Aldolase A deficiency has been associated with myopathy and hemolytic anemia. Alternative splicing and alternative promoter usage results in multiple transcript variants. Related pseudogenes have been identified on chromosomes 3 and 10.
Form	20mM Tris-HCl, 100mM NaCl, 20% Glycerol, pH 8.0. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

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Molecular Mass	40.5 kDa
Endotoxin	< 0.1 EU per µg protein as determined by LAL test
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 µg/mL as determined by microplate BCA method

GENE INFORMATION

Gene Name	ALDOA aldolase A, fructose-bisphosphate [Homo sapiens]
Official Symbol	ALDOA
Synonyms	ALDOA; aldolase A, fructose-bisphosphate; fructose-bisphosphate aldolase A; muscle-type aldolase; lung cancer antigen NY-LU-1; fructose-1,6-bisphosphate triosephosphate-lyase; ALDA; GSD12;
Gene ID	226
mRNA Refseq	NM_000034
Protein Refseq	NP_000025
MIM	103850
UniProt ID	P04075

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