

## 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | ALDOA aldolase A, fructose-bisphosphate [ Homo sapiens ]   |
| <b>Official Symbol</b> | ALDOA  |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 226  |
| <b>mRNA Refseq</b>     | NM_000034  |
| <b>Protein Refseq</b>  | NP_000025  |
| <b>MIM</b>             | 103850   |
| <b>UniProt ID</b>      | P04075   |

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