

Recombinant Human ALDOA protein, His & T7-tagged

Cat. No. ALDOA-651H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDOA aa. (Asp18~Gly273 (Accession # P04075)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp18~Gly273
Description	<p>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.</p>
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 31.6kDa

 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

Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>92%
Characteristic	The isoelectric point is 7.7.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.

GENE INFORMATION

Gene Name	ALDOA aldolase, fructose-bisphosphate A [Homo sapiens (human)]
Official Symbol	ALDOA
Synonyms	ALDOA; aldolase, fructose-bisphosphate A; ALDA; GSD12; HEL-S-87p; fructose-bisphosphate aldolase A; aldolase A, fructose-bisphosphate; epididymis secretory sperm binding protein Li 87p; fructose-1,6-bisphosphate triosephosphate-lyase; lung cancer antigen NY-LU-1; muscle-type aldolase

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Gene ID	226
mRNA Refseq	NM_000034.3
Protein Refseq	NP_000025.1
UniProt ID	P04075

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