

Recombinant Full Length Human ALDOA Protein, GST-tagged

Cat. No. ALDOA-1421HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDOA full-length ORF (AAH10660.1, 1 a.a. - 364 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	364 amino acids
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. [provided by RefSeq, Aug 2011]
Molecular Mass	65.78 kDa
AA Sequence	MPYQYPALTP EQKKELSDIA HRIVAPGKGI LAADESTGSI AKRLQSIGTE NTEENRRFYR QLLLTADDRV NPCIGGVILF HETLYQKADD GRPFPQVIKS

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KGGVVGKVD KGVVPLAGTN GETTTQGLDG LSERCAQYKK DGADFAKWRC
 VLKIGEHTPS ALAIMENANV LARYASICQQ NGIVPIVEPE ILPDGDHDLK
 RCQYVTEKVL AAVYKALSDH HIYLEGTLLK PNMVTPGHAC TQKFSHEEIA
 MATVTALRRT VPPAVTGITF LSGGQSEEEA SINLNAINKC PLLKPWALTF
 SYGRALQASA LKAWGGKKEN LKAAQEEYVK RALANSLACQ GKYPSPGQAG
 AAASESLFVS NHAY

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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UniProt ID

P04075

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