

Recombinant Human ALDOA Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ALDOA-924H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALDOA MS Standard C13 and N15-labeled recombinant protein (NP_000025) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the class I fructose-bisphosphate aldolase protein family. The encoded protein 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. Mutations in this gene have been associated with Glycogen Storage Disease XII, an autosomal recessive disorder associated with hemolytic anemia. Disruption of this gene also plays a role in the progression of multiple types of cancers. Related pseudogenes have been identified on chromosomes 3 and 10.
Molecular Mass	39.4 kDa
AA Sequence	MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSIKRLQSIGTENTEENRRF YRQLLLTADDRVNPCIGGVILFHETLYQKADDGRPFQVIKSKGGVVGIVDKGVVPL AGTNGETTTQGLDGLSERCAQYKKDGADFAKWRCVLKIGEHTPSALAIMENANVLA RYASICQQNGIVPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHIYLEGTLLKP

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NMVTPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLSGGQSEEEASINLNAINK
CPLLKPWALTFSYGRALQASALKAWGGKKENLKAAQEEYVKRALANSLACQGKYTP
SGQAGAAASESLFVSNHAYTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ALDOA aldolase, fructose-bisphosphate A [Homo sapiens (human)]

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

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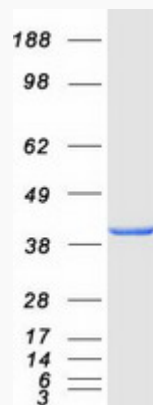
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MIM 103850

UniProt ID P04075

SDS-PAGE



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