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

Cat. No. ALDOA-5775H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALDOA MS Standard C13 and N15-labeled recombinant protein (NP_001121089) 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	MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSIAKRLQSIGTENTEENRRF YRQLLLTADDRVNPCIGGVILFHETLYQKADDGRPFPQVIKSKGGVVGIKVDKGVVPL AGTNGETTTQGLDGLSERCAQYKKDGADFAKWRCVLKIGEHTPSALAIMENANVLA RYASICQQNGIVPIVEPEILPDGDHDLKRCQYVTEKVLAAVYKALSDHHIYLEGTLLKP

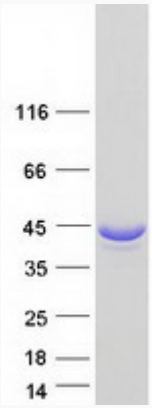
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	NMVTPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLSGGQSEEEASINLNAINK CPLLKPWALTFSYGRALQASALKAWGGKKENLKAAQEEYVKRALANSLACQGKYTP SGQAGAAASESLFVSNHAYTRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable 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_001127617
Protein Refseq	NP_001121089

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MIM	103850
UniProt ID	P04075
SDS-PAGE	

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