ALDOA Lysate – Tissue Lysate

PRODUCT OVERVIEW

Product Name	ALDOA, Lysate
Full Product Name	Human ALDOA Protein Lysate
Product Gene Name	ALDOA lysate
Product Synonym Names	ALDOA; ALDA; GSD12; HEL-S-87p
Host	Human
Form/Format	Lyophilized
Preparation and Storage	Store at -20 degree C Once reconsituted, aliquot and store any remaining material at-20 degree C to avoid repeated freeze-thaw cycles.
Molecular Weight	39kDa
OMIM	103850
3D Structure	ModBase 3D Structure for P04075
Related Product Information for ALDOA lysate	Human ALDOA Protein Lysate 20ug is provided as a Lyophilized powder. This is a Recombinant Protein Lysate produced in HEK293T cells. This protein lysate can be reconsituted using SDS Sample Buffer.
Other Notes	Small volumes of ALDOA lysate vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ALDOA purchase	MBS137117 is a lysate targeting ALDOA. Also known as Human ALDOA Protein Lysate. Host: Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ALDOA. It may not necessarily be applicable to this product.

NCBI GI #	4557305
NCBI GeneID	226
NCBI Accession #	NP_000025
UniProt Primary Accession #	P04075
UniProt Related Accession #	P04075
GenBank Nucleotide #	NM_000034
NCBI Official Synonym Full Names	aldolase, fructose-bisphosphate A
NCBI Official Symbol	ALDOA
NCBI Official Synonym Symbols	ALDA; GSD12; HEL-S-87p
UniProt Protein Name	Fructose-bisphosphate aldolase A
UniProt Synonym Protein Names	Lung cancer antigen NY-LU-1; Muscle-type aldolase
Protein Family	Fructose-bisphosphate aldolase
UniProt Gene Name	ALDOA

UniProt Synonym Gene Names	ALDA
UniProt Entry Name	ALDOA_HUMAN
NCBI Protein Information	fructose-bisphosphate aldolase A
NCBI Summary for ALDOA	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. [provided by RefSeq, Sep 2017]
UniProt Comments for ALDOA	ALDOA: a glycolytic enzyme that catalyzes D-fructose 1,6-bisphosphate -> glycerone phosphate + D-glyceraldehyde 3-phosphate. Three forms of aldolase are found in vertebrates - aldolase A in muscle, aldolase B in liver and aldolase C in brain. Protein type: Carbohydrate Metabolism - fructose and mannose; Lyase; Carbohydrate Metabolism - pentose phosphate pathway; EC 4.1.2.13; Mitochondrial; Carbohydrate Metabolism - glycolysis and gluconeogenesis Chromosomal Location of Human Ortholog: 16p11.2 Cellular Component: I band; extracellular space; membrane; extracellular region; M band; cytosol; nucleus; actin cytoskeleton Molecular Function: tubulin binding; identical protein binding; protein binding; cytoskeletal protein binding; fructose-bisphosphate aldolase activity; actin binding Biological Process: platelet activation; glycolysis; striated muscle contraction; glucose metabolic process; actin filament organization; pathogenesis; protein homotetramerization; gluconeogenesis; muscle maintenance; regulation of cell shape; fructose 1,6-bisphosphate metabolic process; platelet degranulation; ATP biosynthetic process; carbohydrate metabolic process; blood coagulation; fructose metabolic process Disease: Glycogen Storage Disease Xii
Research Articles on ALDOA	**1.** Results showed that ALDOA was upregulated in renal cell carcinoma (RCC) samples and cell lines and significantly associated with metastasis and survival. Overall, data revealed that ALDOA functions as a tumor promoter, plays a prominent role in proliferation, migration, and invasion of RCC cells with high expression, and may promote EMT and activate the Wnt/betacatenin signaling pathway.
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