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Product datasheet for PH325547

Aldolase (ALDOA) (NM_001127617) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALDOA MS Standard C13 and N15-labeled recombinant protein (NP_001121089)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225547
Predicted MW:	39.4 kDa
Protein Sequence:	>RC225547 protein sequence Red=Cloning site Green=Tags(s) MPYQYPALTPEQKKELSDIAHRIVAPGKGILAADESTGSIAKRLQSIGTENTEENRRFYRQLLLTADDRV NPCIGGVILFHETLYQKADDGRPFPQVIKSKGGVVGIKVDKGVVPLAGTNGETTTQGLDGLSERCAQYKK DGADFAKWRCVLKIGEHTPSALAIMENANVLARYASICQQNGIVPIVEPEILPDGDHDLKRCQYVTEKVL AAVYKALSDHHIYLEGTLLKPNMVTPGHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLSGGQSEEEA SINLNAINKCPLLKPWALTFSYGRALQASALKAWGGKKENLKAAQEEYVKRALANSLACQGKYTPSGQAG AAASESLFVSNHAY TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001121089
RefSeq Size:	1630
RefSeq ORF:	1092
Synonyms:	ALDA; GSD12; HEL-S-87p
Locus ID:	226

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UniProt ID: P04075, V9HWN7

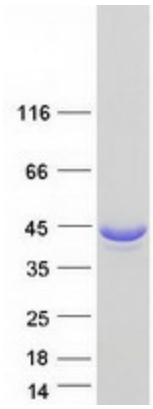
Cytogenetics: 16p11.2

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Fructose and mannose metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Pentose phosphate pathway

Product images:



Coomassie blue staining of purified ALDOA protein (Cat# [TP325547]). The protein was produced from HEK293T cells transfected with ALDOA cDNA clone (Cat# [RC225547]) using MegaTran 2.0 (Cat# [TT210002]).