

## Product datasheet for PH302576

### Aldolase (ALDOA) (NM\_000034) Human Mass Spec Standard

#### Product data:

Product Type:	Mass Spec Standards
Description:	ALDOA MS Standard C13 and N15-labeled recombinant protein (NP_000025)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202576
Predicted MW:	39.4 kDa
Protein Sequence:	>RC202576 protein sequence <span style="color: red;">Red</span> =Cloning site <span style="color: green;">Green</span> =Tags(s)

MPYQYPALTPEQKKELSIAHRIVAPGKILAADESTGSIKRLQSIGTENTEENRRFYRQLLLTADDRV  
 NPCIGGVILFHETLYQKADDGRFPQVIKSKGGVVGIVDKGVVPLAGTNGETTTQGLDGLSERCAQYKK  
 DGADFAKWRCVLKIGEHTPSALAIMENANVLARYASICQNGIVPIVEPEILPDGDHDLKRCQYVTEKVL  
 AAVYKALSDHHIYLEGTLKPNMVTGPHACTQKFSHEEIAMATVTALRRTVPPAVTGITFLSGGQSEEEA  
 SINLNAINKCPLLKPWALTFSYGRALQASALKAWGGKKENLAAQEEYVKRALANSLACQKYTPSGQAG  
 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- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>4</sub> ]-L-Arginine and [U- <sup>13</sup> C <sub>6</sub> , <sup>15</sup> N <sub>2</sub> ]-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:	<u>NP_000025</u>
RefSeq Size:	2408
RefSeq ORF:	1092
Synonyms:	ALDA; GSD12; HEL-S-87p
Locus ID:	226


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**UniProt ID:** P04075, V9HWN7

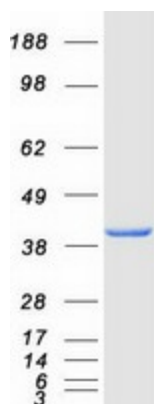
**Cytogenetics:** 16p11.2

**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# [TP302576]). The protein was produced from HEK293T cells transfected with ALDOA cDNA clone (Cat# [RC202576]) using MegaTran 2.0 (Cat# [TT210002]).