

Product datasheet for PH307087

ALDH6A1 (NM_005589) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALDH6A1 MS Standard C13 and N15-labeled recombinant protein (NP_005580)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC207087
Predicted MW:	57.8 kDa
Protein Sequence:	>RC207087 protein sequence Red=Cloning site Green=Tags(s)

MAALLAAA VRARILQVSSKVKSSPTWYSASSFSSSVPTVKLFIGGKFVESKSDKWIDIHNPATNEVIGR
VPQATKAEMDAAIASCKRAFPWADTSVLSRQQVLLRYQQLIKENLKEIAKLITLEQGKTLADAEGDVFR
GLQVVEHACSVTSLMMGETMPSITKMDLYSYRLPLGVCAGIAPFNFPAMIPLWMFPMAMVCGNTFLMKP
SERVPGATMLLAKLLQDSGAPDGTLNIIHGQHEAVNFI CDHPDIKAI SFVGSNKAGEYIFERGSRHGKRV
QANMGAKNHGVVMPDANKENTLNQLVGA AFGAAGQRCMALSTAVLVGEAKKWLPELVEHAKNLRVNAGDQ
PGADLGPLITPQAKERVCNLIDSGTKEGASILLDGRKIKVKGYENGNFVGPTIISNVKPNMTCYKEEIFG
PVLVVLETETLDEAIQIVNNNPYNGTAIFTTNGATARKY AHLVDVGQVGVNVPVPLPMFSFTGSRSS
FRGDTNFYGKQGIQFYTLKTTITSQWKEEDATLSSPAVVMPTMGR

TRTRPLEQKLI SEEDLAANDILDYKDDDDKV

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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_005580</u>
RefSeq Size:	4701
RefSeq ORF:	1605



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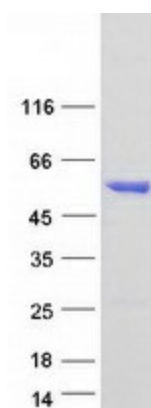
Synonyms: MMSADHA; MMSDH
Locus ID: 4329
UniProt ID: [Q02252](#), [A0A024R6G4](#)
Cytogenetics: 14q24.3

Summary: This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded protein is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. This protein catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semialdehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jun 2013]

Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Propanoate metabolism, Valine, leucine and isoleucine degradation

Product images:



Coomassie blue staining of purified ALDH6A1 protein (Cat# [TP307087]). The protein was produced from HEK293T cells transfected with ALDH6A1 cDNA clone (Cat# [RC207087]) using MegaTran 2.0 (Cat# [TT210002]).