

Product datasheet for PH316921

ALDH9A1 (NM_000696) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALDH9A1 MS Standard C13 and N15-labeled recombinant protein (NP_000687)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC216921
Predicted MW:	56.1 kDa
Protein Sequence:	>RC216921 representing NM_000696 Red=Cloning site Green=Tags(s)

MFLRAGLAALSPLLRLRSPVAAMSTGTFVVSQPLNYRGGARVEPADASGTEKAFEPATGRVIATFTCS
 GEKEVNLAQNAAAFKIWSQKSGMERCRI LLEAARIIREREDEIATMECINNGKSIFEARLDIDISWQC
 LEYYAGLAASMAGEHIQLPGGSFGYTRREPLGVCVIGAWNYPFQIASWKSAPALACGNAMVFKPSPFTP
 VSALLLAEIYSEAGVPPGLFNVVQGAATGQFLCQHPDVAKVVSFTGSVPTGMKIMEMSAKGIKPVTLLELG
 GKSPLIIFSDCMNNAVKGALMANFLTQGGVCCNGTRVFVQKEILDKFTEEVVKQTQRIKIGDPLLEDTR
 MGPLINRPHLERVLGFVKVAKEQGAKVLCGGDIYVPEDPKLKDGYMPCVLTNCRDDMTCVKEEIFGPV
 MSILSFDTEAEVLERANDTTFGLAAGVFTRDIQRAHRVVAELQAGTCFINNYNVSPVELPFGGYKKSFGF
 RENGRVTIEYYSQLKTVCEMGDVESAF

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:	NP_000687
RefSeq Size:	2500
RefSeq ORF:	1554



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Synonyms: ALDH4; ALDH7; ALDH9; E3; TMABA-DH; TMABADH; TMABALDH

Locus ID: 223

UniProt ID: [P49189](#)

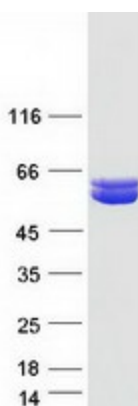
Cytogenetics: 1q24.1

Summary: This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits. [provided by RefSeq, Jul 2008]

Protein Families: Druggable Genome

Protein Pathways: Arginine and proline metabolism, Ascorbate and aldarate metabolism, beta-Alanine metabolism, Butanoate metabolism, Fatty acid metabolism, Glycerolipid metabolism, Glycolysis / Gluconeogenesis, Histidine metabolism, Limonene and pinene degradation, Lysine degradation, Metabolic pathways, Propanoate metabolism, Pyruvate metabolism, Tryptophan metabolism, Valine, leucine and isoleucine degradation

Product images:



Coomassie blue staining of purified ALDH9A1 protein (Cat# [TP316921]). The protein was produced from HEK293T cells transfected with ALDH9A1 cDNA clone (Cat# [RC216921]) using MegaTran 2.0 (Cat# [TT210002]).