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Product datasheet for PH315367

Alcohol Dehydrogenase (ADH1A) (NM_000667) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ADH1A MS Standard C13 and N15-labeled recombinant protein (NP_000658)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC215367
Predicted MW:	39.7 kDa
Protein Sequence:	>RC215367 representing NM_000667 Red=Cloning site Green=Tags(s) MSTAGKVIKCKAAVLWELKKPFSIEEVEVAPPKAHEVRIKMVAAGICRSDEHVVSGNLVTPLPVILGHEA AGIVESVGEGVTTVKPGDKVIPLFTPQCGKCRICKNPESNYCLKNDLGNPRGTLQDGTRRFTCSGKPIHH FVGVSTFSQYTVVDENAVAKIDAASPLEKVCLIGCGFSTGYGSAVKVAKVTPGSTCAVFGLGGVGLSVVM GCKAAGAARIIAVDINKDKFAKAKELGATECINPQDYKKPIQEVLKEMTDGGVDFSFEVIGRLDTMMASL LCCHEACGTSVIVGVPPDSQNLSINPMLLLTGRTWKGAIFGGFKSKESVPKLVADFMAKKFSLDALITNI LPFEKINEGFDLLRSGKSIRTILMF 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_000658
RefSeq Size:	1456
RefSeq ORF:	1125
Synonyms:	ADH1
Locus ID:	124

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UniProt ID: P07327

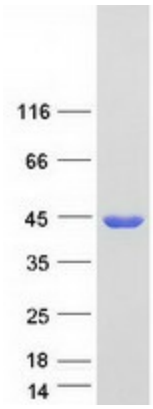
Cytogenetics: 4q23

Summary: This gene encodes a member of the alcohol dehydrogenase family. The encoded protein is the alpha subunit of class I alcohol dehydrogenase, which consists of several homo- and heterodimers of alpha, beta and gamma subunits. Alcohol dehydrogenases catalyze the oxidation of alcohols to aldehydes. This gene is active in the liver in early fetal life but only weakly active in adult liver. This gene is found in a cluster with six additional alcohol dehydrogenase genes, including those encoding the beta and gamma subunits, on the long arm of chromosome 4. Mutations in this gene may contribute to variation in certain personality traits and substance dependence. [provided by RefSeq, Nov 2010]

Protein Families: Druggable Genome

Protein Pathways: Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism

Product images:



Coomassie blue staining of purified ADH1A protein (Cat# [TP315367]). The protein was produced from HEK293T cells transfected with ADH1A cDNA clone (Cat# [RC215367]) using MegaTran 2.0 (Cat# [TT210002]).