

Product datasheet for PH304903

ADH5 (NM_000671) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ADH5 MS Standard C13 and N15-labeled recombinant protein (NP_000662)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204903
Predicted MW:	39.7 kDa
Protein Sequence:	>RC204903 protein sequence Red=Cloning site Green=Tags(s)

MANEVIKCKAAVAWEAGKPLSIEEIEVAPPKAHEVRIKIIATAVCHTDAYTLSGADPEGCFPVILGHEGA
GIVESVGEGVTKLKAGDTVIPLIYPQCGECKFCLNPKTNLCQKIRVTQGGKGLMPDGTSRFTCKGKTIHLY
MGTSTFSEYTVVADISVAKIDPLAPLDKVCLLGCISTGYGAAVNTAKLEPGSVCAVFLGGVGLAVIMG
CKVAGASRIIGVDINKDKFARAKEFGATECINPQDFSKPIQEVLIEMTDGGVDYSFECIGNVKVMRAALE
ACHKGGVGSVVVVAASGEEIATRPFQLVTGRTWKGTAFGGKSVESVPKLVSEYMSKKIKVDEFVTHNL
SFDEINKAFELMHSGKSIRTVVKI

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_000662
RefSeq Size:	2652
RefSeq ORF:	1122
Synonyms:	ADH-3; ADHX; AMEDS; BMFS7; FALDH; FDH; GSH-FDH; GSNOR; HEL-S-60p
Locus ID:	128



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UniProt ID: [P11766](#), [Q6IRT1](#)

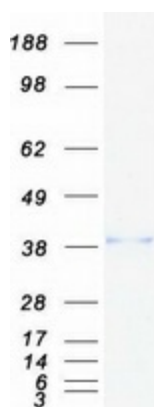
Cytogenetics: 4q23

Summary: This gene encodes a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. The encoded protein forms a homodimer. It has virtually no activity for ethanol oxidation, but exhibits high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between formaldehyde and glutathione. This enzyme is an important component of cellular metabolism for the elimination of formaldehyde, a potent irritant and sensitizing agent that causes lacrymation, rhinitis, pharyngitis, and contact dermatitis. The human genome contains several non-transcribed pseudogenes related to this gene. [provided by RefSeq, Oct 2008]

Protein Families: Druggable Genome

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

Product images:



Coomassie blue staining of purified ADH5 protein (Cat# [TP304903]). The protein was produced from HEK293T cells transfected with ADH5 cDNA clone (Cat# [RC204903]) using MegaTran 2.0 (Cat# [TT210002]).