

#### OriGene Technologies, Inc.

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# Product datasheet for PH325750

### ALDH3A1 (NM\_001135167) Human Mass Spec Standard

### **Product data:**

Product Type:	Mass Spec Standards
Description:	ALDH3A1 MS Standard C13 and N15-labeled recombinant protein (NP_001128639)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225750
Predicted MW:	50.2 kDa
Protein Sequence:	>RC225750 representing NM_001135167 Red=Cloning site Green=Tags(s)
	MSKISEAVKRARAAFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAYYEEVVYVLEE IEYMIQKLPEWAADEPVEKTPQTQQDELYIHSEPLGVVLVIGTWNYPFNLTIQPMVGAIAAGNSVVLKPS ELSENMASLLATIIPQYLDKDLYPVINGGVPETTELLKERFDHILYTGSTGVGKIIMTAAAKHLTPVTLE LGGKSPCYVDKNCDLDVACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLKKSLKEFYGEDAKKSR DYGRIISARHFQRVMGLIEGQKVAYGGTGDAATRYIAPTILTDVDPQSPVMQEEIFGPVLPIVCVRSLEE AIQFINQREKPLALYMFSSNDKVIKKMIAETSSGGVAANDVIVHITLHSLPFGGVGNSGMGSYHGKKSFE TFSHRRSCLVRPLMNDEGLKVRYPPSPAKMTQH
	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:	<u>NP 001128639</u>
RefSeq ORF:	1359
Synonyms:	ALDH3; ALDHIII
Locus ID:	218

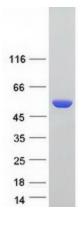


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	ALDH3A1 (NM_001135167) Human Mass Spec Standard – PH325750
UniProt ID:	<u>P30838</u>
Cytogenetics:	17p11.2
Summary:	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are involved in the detoxification of alcohol-derived acetaldehyde and in the metabolism of corticosteroids, biogenic amines, neurotransmitters, and lipid peroxidation. The enzyme encoded by this gene forms a cytoplasmic homodimer that preferentially oxidizes aromatic and medium-chain (6 carbons or more) saturated and unsaturated aldehyde substrates. It is thought to promote resistance to UV and 4-hydroxy-2-nonenal-induced oxidative damage in the cornea. The gene is located within the Smith-Magenis syndrome region on chromosome 17. Multiple alternatively spliced variants, encoding the same protein, have been identified. [provided by RefSeq, Sep 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Drug metabolism - cytochrome P450, Glycolysis / Gluconeogenesis, Histidine metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Phenylalanine metabolism, Tyrosine metabolism

## **Product images:**



Coomassie blue staining of purified ALDH3A1 protein (Cat# [TP325750]). The protein was produced from HEK293T cells transfected with ALDH3A1 cDNA clone (Cat# [RC225750]) using MegaTran 2.0 (Cat# [TT210002]).

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