

Product datasheet for PH302440

ALDH3A1 (NM_000691) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALDH3A1 MS Standard C13 and N15-labeled recombinant protein (NP_000682)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC202440
Predicted MW:	50.4 kDa
Protein Sequence:	>RC202440 protein sequence Red=Cloning site Green=Tags(s)

MSKISEAVKRARAASFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAYYEEVVVYLEE
IEYMIQKLPEWAADEPVEKTPQTQQDEL YIHSEPLGVVLVIGTWNYPFNLTIQPMVGAI AAGNAVVLKPS
ELSENMASLLATIIPQYLDKDLYPVINGGVPETTELLKERFDHILYTGSTGVGKIIMTAAAKHLTPVTLE
LGGKSPCYVDKNCDDL VACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLLKSLKEFYGEDAKKSR
DYGRIISARHFQRMGLIEGQKVAYGGTGAATRYIAPTILTDVDPQSPVMQEEIFGPVLPVVCVRSLEE
AIQFINQREKPLALYMFSSNDKVIKKMIAETSSGGVAANDVIVHITLHSLPFGGNGSGMGSYHGKKSFE
TFSHRRSCLVRPLMNDEGLKVRYPSPAKMTQH

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_000682</u>
RefSeq Size:	1794
RefSeq ORF:	1359
Synonyms:	ALDH3; ALDHIII



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Locus ID: 218

UniProt ID: [P30838](#), [Q6PKA6](#)

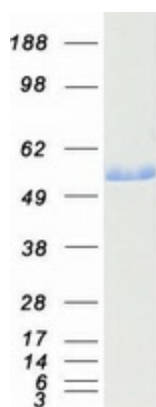
Cytogenetics: 17p11.2

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# [TP302440]). The protein was produced from HEK293T cells transfected with ALDH3A1 cDNA clone (Cat# [RC202440]) using MegaTran 2.0 (Cat# [TT210002]).