

Product datasheet for PH325751

ALDH3A1 (NM_001135168) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	ALDH3A1 MS Standard C13 and N15-labeled recombinant protein (NP_001128640)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC225751
Predicted MW:	50.2 kDa
Protein Sequence:	>RC225751 representing NM_001135168 Red=Cloning site Green=Tags(s)

MSKISEAVKRARAASFSSGRTRPLQFRIQQLEALQRLIQEQEQELVGALAADLHKNEWNAYEYEVVYVLEE
IEYMIQKLPEWAADEPVEKTPQTQQDEL YIHSEPLGVVLVIGTWNYPFNLTIQPMVGAI AAGNSVVLKPS
ELSENMASLLATIIPQYLDKDLYPVINGGVPETTELLKERFDHILYTGSTGVGKIIMTAAAKHLTPVTLE
LGGKSPCYVDKNCDDL VACRRIAWGKFMNSGQTCVAPDYILCDPSIQNQIVEKLLKSLKEFYGEDAKKSR
DYGRIISARHFQRMGLIEGQKVAYGGTGDAATRYIAPTILTDVDPQSPVMQEEIFGPVLPVVCVRSLEE
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:	NP_001128640
RefSeq ORF:	1359
Synonyms:	ALDH3; ALDHIII
Locus ID:	218



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UniProt ID: [P30838](#)

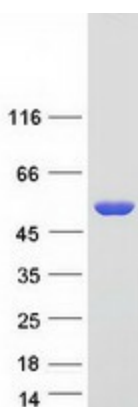
Cytogenetics: 17p11.2

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# [TP325751]). The protein was produced from HEK293T cells transfected with ALDH3A1 cDNA clone (Cat# [RC225751]) using MegaTran 2.0 (Cat# [TT210002]).