



ALDH3A1 peptide (DAG-P0152)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	Aldehyde dehydrogenases oxidize various aldehydes to the corresponding acids. They are
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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]

Specificity	High levels in stomach	, esophagus and lung; lo	w level in the liver and kidney.

Purity 70 - 90% by HPLC.

Conjugate Unconjugated

Sequence Similarities Belongs to the aldehyde dehydrogenase family.

Format Liquid

Preservative None

Storage Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw

cycles. Information available upon request.

GENE INFORMATION

Gene Name ALDH3A1 aldehyde dehydrogenase 3 family, member A1 [Homo sapiens (human)]

Official Symbol ALDH3A1

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Synonyms	ALDH3A1; aldehyde dehydrogenase 3 family, member A1; ALDH3; ALDHIII; aldehyde dehydrogenase, dimeric NADP-preferring; stomach aldehyde dehydrogenase; aldehyde dehydrogenase type III; aldehyde dehydrogenase isozyme 3;
Entrez Gene ID	<u>218</u>
mRNA Refseq	NM 000691.4
Protein Refseq	NP 000682.3
UniProt ID	P30838
Chromosome Location	17p11.2
Pathway	AhR pathway, organism-specific biosystem; Chemical carcinogenesis, organism-specific biosystem; Chemical carcinogenesis, conserved biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Glycolysis / Gluconeogenesis, organism-specific biosystem; Glycolysis / Gluconeogenesis, conserved biosystem; Histidine metabolism, organism-specific biosystem; Histidine metabolism, conserved biosystem; Metabolism of xenobiotics by cytoc
Function	3-chloroallyl aldehyde dehydrogenase activity; alcohol dehydrogenase (NADP+) activity; aldehyde dehydrogenase [NAD(P)+] activity;