

[Go to Product page](#)

Datasheet for ABIN7318141 **ALDH1A1 Protein (His tag)**

Overview

Quantity:	50 µg
Target:	ALDH1A1
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALDH1A1 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human ALDH1A1/ALDC Protein (His Tag)
Sequence:	Met 1-Ser501
Characteristics:	Recombinant Human Aldehyde Dehydrogenase Family 1 Member A1 is produced by our E.coli expression system and the target gene encoding Met1-Ser501 is expressed with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	ALDH1A1
Alternative Name:	ALDH1A1/ALDC (ALDH1A1 Products)
Background:	Background: Aldehyde Dehydrogenase Family 1 Member A1 (ALDH1A1) is a cytoplasmic enzyme that belongs to the Aldehyde Dehydrogenase family. ALDH1A1 is the second enzyme

Target Details

of the major oxidative pathway of alcohol metabolism. Two major liver isoforms of this enzyme, cytosolic and mitochondrial, can be distinguished by their electrophoretic mobilities, kinetic properties and subcellular localizations. ALDH1A1 is the main cytosolic isoform, which has a lower affinity for aldehydes than the mitochondrial enzyme. ALDH1A1 binds free retinal and cellular retinol-binding protein-bound retinal. It can convert/oxidize retinaldehyde to retinoic acid.

Synonym: Retinal Dehydrogenase 1, RALDH 1, RaIDH1, ALDH-E1, ALHDII, Aldehyde Dehydrogenase Family 1 Member A1, Aldehyde Dehydrogenase Cytosolic, ALDH1A1, ALDC, ALDH1, PUMB10,ALDH11,HEL-9,HEL-S-53e,HEL12,PUMB1,RALDH1

Molecular Weight:	57.0 kDa
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UniProt:	P00352
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Pathways:	Dopaminergic Neurogenesis
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Application Details

Restrictions:	For Research Use only
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Handling

Format:	Frozen, Liquid
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Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, pH 8.5.
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Storage:	-20 °C
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Storage Comment:	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
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