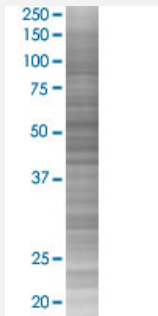


# ALDH4A1 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00008659-T02

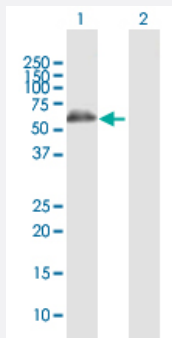
Size 100 uL

## Applications



### SDS-PAGE Gel

ALDH4A1 transfected lysate.



### Western Blot

Lane 1: ALDH4A1 transfected lysate ( 61.70 KDa)

Lane 2: Non-transfected lysate.

## Specification

Transfected Cell Line	293T
Plasmid	pCMV-ALDH4A1 full-length
Host	Human
Theoretical MW (kDa)	61.7
Interspecies Antigen Sequence	Mouse (92); Rat (91)

## Quality Control Testing

Transient overexpression cell lysate was tested with Anti-ALDH4A1 antibody ([H00008659-D01P](#)) by Western Blots.  
SDS-PAGE Gel  
ALDH4A1 transfected lysate.  
Western Blot  
Lane 1: ALDH4A1 transfected lysate ( 61.70 KDa)  
Lane 2: Non-transfected lysate.

## Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

## Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — ALDH4A1

## Entrez GeneID

[8659](#)

## GeneBank Accession#

[NM\\_003748.2](#)

## Protein Accession#

[NP\\_003739.2](#)

## Gene Name

ALDH4A1

## Gene Alias

ALDH4, P5CD, P5CDh, P5CDhL, P5CDhS

## Gene Description

aldehyde dehydrogenase 4 family, member A1

## Omim ID

[239510 606811](#)

## Gene Ontology

[Hyperlink](#)

## Gene Summary

This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq]

## Other Designations

OTTHUMP00000002544|OTTHUMP00000002545|P5C dehydrogenase|aldehyde dehydrogenase 4A1|mitochondrial delta-1-pyrroline 5-carboxylate dehydrogenase

## Pathway

- [Alanine](#)
- [Arginine and proline metabolism](#)
- [Metabolic pathways](#)

## Disease

- [Adenocarcinoma](#)
- [Esophageal Neoplasms](#)
- [Hearing Loss](#)