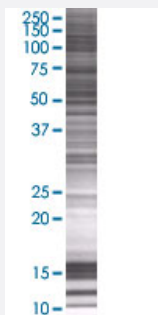


# ALDH5A1 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00007915-T01

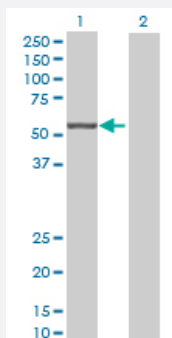
Size 100 uL

## Applications



### SDS-PAGE Gel

ALDH5A1 transfected lysate.



### Western Blot

Lane 1: ALDH5A1 transfected lysate ( 58.96 KDa)

Lane 2: Non-transfected lysate.

## Specification

**Transfected Cell Line** 293T

**Plasmid** pCMV-ALDH5A1 full-length

**Host** Human

**Theoretical MW (kDa)** 58.96

**Quality Control Testing** Transient overexpression cell lysate was tested with Anti-ALDH5A1 antibody ([H00007915-B01](#)) by Western Blots.  
SDS-PAGE Gel  
ALDH5A1 transfected lysate.  
Western Blot  
Lane 1: ALDH5A1 transfected lysate ( 58.96 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 — ALDH5A1

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">7915</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| GeneBank Accession# | <a href="#">NM_001080.3</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Protein Accession#  | <a href="#">NP_001071.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Name           | ALDH5A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Gene Alias          | SSADH, SSDH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene Description    | aldehyde dehydrogenase 5 family, member A1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Omim ID             | <a href="#">271980 610045</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Gene Summary        | <p>This protein belongs to the aldehyde dehydrogenase family of proteins. This gene encodes a mitochondrial NAD(+)-dependent succinic semialdehyde dehydrogenase. A deficiency of this enzyme, known as 4-hydroxybutyricaciduria, is a rare inborn error in the metabolism of the neurotransmitter 4-aminobutyric acid (GABA). In response to the defect, physiologic fluids from patients accumulate GHB, a compound with numerous neuromodulatory properties. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]</p> |
| Other Designations  | NAD(+)-dependent succinic semialdehyde dehydrogenase OTTHUMP00000016088 aldehyde dehydrogenase 5A1 mitochondrial succinate semialdehyde dehydrogenase succinate-semialdehyde dehydrogenase                                                                                                                                                                                                                                                                                                                                                                                      |

## Pathway

- [Alanine](#)
- [Butanoate metabolism](#)

- [Metabolic pathways](#)

## Disease

- [Cognition](#)
- [Cognition Disorders](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Mental Disorders](#)
- [Schizophrenia](#)
- [Seizures](#)
- [Syndrome](#)
- [Tobacco Use Disorder](#)
- [Wechsler Scales](#)