

## Recombinant Human ALDH5A1 cell lysate

Cat. No. ALDH5A1-60HCL Lot. No. (See product label)

### SPECIFICATION

**Species**

Human

**Description**

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.

**Size**

100 ul

**Storage Buffer**

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

**Applications**

Western Blot;

### GENE INFORMATION

**Gene Name**

ALDH5A1 aldehyde dehydrogenase 5 family, member A1 [ Homo sapiens ]

**Official Symbol**

ALDH5A1

**Synonyms**

ALDH5A1; aldehyde dehydrogenase 5 family, member A1; succinate-semialdehyde dehydrogenase, mitochondrial; SSADH; SSDH; succinate semialdehyde

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dehydrogenase; aldehyde dehydrogenase family 5 member A1; mitochondrial succinate semialdehyde dehydrogenase; NAD(+)-dependent succinic semialdehyde dehydrogenase;

**Gene ID** [7915](#)

**mRNA Refseq** [NM\\_001080](#)

**Protein Refseq** [NP\\_001071](#)

**MIM** [610045](#)

**UniProt ID** [P51649](#)

**Chromosome Location** 6p22

**Pathway** 4-aminobutyrate degradation I, organism-specific biosystem; 4-aminobutyrate degradation I, conserved biosystem; Alanine, aspartate and glutamate metabolism, organism-specific biosystem; Alanine, aspartate and glutamate metabolism, conserved biosystem; Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Degradation of GABA, organism-specific biosystem;

**Function** oxidoreductase activity; protein homodimerization activity; succinate-semialdehyde dehydrogenase activity; succinate-semialdehyde dehydrogenase activity;

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