

## Recombinant Human ALDH9A1 cell lysate

**Cat. No.** ALDH9A1-61HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Description</b>	This protein belongs to the aldehyde dehydrogenase family of proteins. It has a high activity for oxidation of gamma-aminobutyraldehyde and other amino aldehydes. The enzyme catalyzes the dehydrogenation of gamma-aminobutyraldehyde to gamma-aminobutyric acid (GABA). This isozyme is a tetramer of identical 54-kD subunits.
<b>Size</b>	100 ul
<b>Storage Buffer</b>	1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)
<b>Applications</b>	Western Blot;

### GENE INFORMATION

<b>Gene Name</b>	ALDH9A1 aldehyde dehydrogenase 9 family, member A1 [ Homo sapiens ]
<b>Official Symbol</b>	ALDH9A1
<b>Synonyms</b>	ALDH9A1; aldehyde dehydrogenase 9 family, member A1; ALDH4, ALDH7, ALDH9; 4-trimethylaminobutyraldehyde dehydrogenase; E3; aldehyde dehydrogenase (NAD <sup>+</sup> ); aldehyde dehydrogenase E3 isozyme; R-aminobutyraldehyde dehydrogenase; gamma-aminobutyraldehyde dehydrogenase; aldehyde dehydrogenase family 9 member A1; ALDH4; ALDH7; ALDH9; TMABADH;

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<b>Gene ID</b>	223
<b>mRNA Refseq</b>	NM_000696
<b>Protein Refseq</b>	NP_000687
<b>MIM</b>	602733
<b>UniProt ID</b>	P49189
<b>Chromosome Location</b>	1q22-q23
<b>Pathway</b>	Arginine and proline metabolism, organism-specific biosystem; Arginine and proline metabolism, conserved biosystem; Ascorbate and aldarate metabolism, organism-specific biosystem; Ascorbate and aldarate metabolism, conserved biosystem; Carnitine synthesis, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem;
<b>Function</b>	1-pyrroline dehydrogenase activity; 3-chloroallyl aldehyde dehydrogenase activity; 4-trimethylammoniumbutyraldehyde dehydrogenase activity; NAD binding; aldehyde dehydrogenase (NAD) activity; amine binding; aminobutyraldehyde dehydrogenase activity; oxidoreductase activity; protein homodimerization activity;

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