

Recombinant Human ALDH9A1 cell lysate

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

SPECIFICATION

Product Overview

Species	Human
Description	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.
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	ALDH9A1 aldehyde dehydrogenase 9 family, member A1 [Homo sapiens]
Official Symbol	ALDH9A1
Synonyms	ALDH9A1; aldehyde dehydrogenase 9 family, member A1; ALDH4, ALDH7, ALDH9; 4-trimethylaminobutyraldehyde dehydrogenase; E3; aldehyde dehydrogenase (NAD+); aldehyde dehydrogenase E3 isozyme; R-aminobutyraldehyde dehydrogenase; gamma-aminobutyraldehyde dehydrogenase; aldehyde

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	dehydrogenase family 9 member A1; ALDH4; ALDH7; ALDH9; TMABADH;
Gene ID	223
mRNA Refseq	NM_000696
Protein Refseq	NP_000687
MIM	602733
UniProt ID	P49189
Chromosome Location	1q22-q23
Pathway	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;
Function	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;