Recombinant Human ALDH5A1 cell lysate

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

SPECIFICATION

Product Overview	
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

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	dehydrogenase, mitochondrial; SSADH; SSDH; succinate semialdehyde 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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