

# Recombinant Full Length Human ALDH5A1 Protein, GST-tagged

**Cat. No.** ALDH5A1-1412HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ALDH5A1 full-length ORF ( NP_001071.1, 1 a.a. - 535 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	535 amino acids
<b>Description</b>	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, Jul 2008]
<b>Molecular Mass</b>	83.6 kDa
<b>AA Sequence</b>	MATCIWLRSC GARRLGSTFP GCRLRPRAGG LVPASGPAPG PAQLRCYAGR LAGLSAALLR TDSFVGGRWL PAAATFPVQD PASGAALGMV ADCGVREARA AVRAAYEAFRC RWREVSAKER SLLLRKWYNL MIQNKDDLAR IITAESGKPL KEAHGEILYS AFFLEWFSEE ARRVYGDIIH TPAKDRRALV LKQPIGVA AV ITPWNFPSAM ITRKVGAAALA AGCTVVVKPA EDTPFSALAL AELASQAGIP

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SGVYNVIPCS RKNAKEVGEA ICTDPLVSKI SFTGSTTTGK ILLHHAANSV  
 KRVSMELGGL APFIVFDSAN VDQAVAGAMA SKFRNTGQTC VCSNQFLVQR  
 GIHDAFVKAF AEAMKKNLRV GNGFEEGTTQ GPLINEKAVE KVEKQVNDV  
 SKGATVVTGG KRHQLGKNFF EPTLLCNVTQ DMLCTHEETF GPLAPVIKFD  
 TEEEAIAIAN AADVGLAGYF YSQDPAQIWR VAEQLEVGMV GVNEGLISSV  
 ECPFGGVKQS GLGREGSKYG IDEYLELKYV CYGGL

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
 Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

## 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 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](#)

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**MIM** 610045

**UniProt ID** P51649

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