

Recombinant Full Length Human ALDH5A1 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human ALDH5A1 full-length ORF (NP_001071.1, 1 a.a. - 535 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	535 amino acids
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. [provided by RefSeq, Jul 2008]
Molecular Mass	83.6 kDa
AA Sequence	MATCIWLRSC GARRLGSTFP GCRLRPRAGG LVPASGPAPG PAQLRCYAGR LAGLSAALLR TDSFVGGRWL PAAATFPVQD PASGAALGMV ADCGVREARA AVRAAYEAFRC RWREVSARKER SSLLRKWYNL MIQNKDDLAR IITAESGKPL KEAHGEILYS AFFLEWFSEE ARRVYGDIIH TPAKDRRALV LKQPIGVAHV ITPWNFPSAM ITRKVGAAAL AGCTVVVKPA EDTPFSALAL AELASQAGIP

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SGVYNVIPCS RKNAKEVGEA ICTDPLVSKI SFTGSTTTGK ILLHHAANSV
 KRVSMEGLGL APFIVFDSAN VDQAVAGAMA SKFRNTGQTC VCSNQFLVQR
 GIHDAFVKAF AEAMKKNLRV GNGFEEGTTQ GPLINEKAVE KVEKQVNDV
 SKGATVVTGG KRHQLGKNFF EPTLLCNVTQ DMLCTHEETF GPLAPVIKFD
 TEEEAIAIAN AADVGLAGYF YSQDPAQIWR VAEQLEVGMV GVNEGLISSV
 ECPFGGVKQS GLGREGSKYG IDEYLELK YV 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
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UniProt ID	P51649
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