

Product Information

MemDX™ Membrane Protein Human ALDH5A1 (Aldehyde dehydrogenase 5 family member A1) for Antibody Discovery

Cat. No.: **MP0032X**

This product is for research use only and is not intended for diagnostic use.

This product is a 83.6 kDa Human ALDH5A1 membrane protein expressed in *in vitro* wheat germ expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Human

Target Protein

ALDH5A1

Protein Length

Full-length

Molecular Weight

83.6 kDa

Sequence

MATCIWLRSCGARRLGSTFPGCRLRPRAGGLVPASGPAPGPAQLRCYAGRLAGLSAALLRTDSFVGGRWLPAAATFPVQDPASG

Product Description

Application

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

Expression Systems

in vitro wheat germ expression system

Tag

GST-tag at N-terminal

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

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

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

ALDH5A1

Full Name

Aldehyde dehydrogenase 5 family member A1

Introduction

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

Alternative Names

SSADH; SSDH; NAD(+)-dependent succinic semialdehyde dehydrogenase; OTTHUMP00000016088; aldehyde dehydrogenase 5A1; mitochondrial succinate semialdehyde dehydrogenase; succinate-semialdehyde dehydrogenase

Gene ID

[7915](#)

UniProt ID

[P51649](#)