

Datasheet for ABIN7583424

## ALDH4A1 Protein (AA 24-563) (His tag)



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### Overview

Quantity:	100 µg
Target:	ALDH4A1
Protein Characteristics:	AA 24-563
Origin:	Rat
Source:	Yeast
Protein Type:	Recombinant
Purification tag / Conjugate:	This ALDH4A1 protein is labelled with His tag.
Application:	ELISA

### Product Details

Sequence:	<p>KHASSLK VANEPILAF T QGSPERDALQ KALNDLKDQT EAIPCVVGDE EVWTSDVRYQ</p> <p>LSPFNHGHKV AKFCYADKAL LNKAIEAAVL ARKEWDLKPV ADRAQIFLKA ADMLSGPRRA</p> <p>EILAKTMVGQ GKTVIQAEID AAAELIDFFR FNAKFAVELE GEQPISVPPS TNHVYRGLE</p> <p>GFVAAISPFN FTAIGGNLAG APALMGNNVL WKPSDTAMLA SYAVYRILRE AGLPPNVIQF</p> <p>VPADGPTFGD TVTSSEHLCG INFTGSVPTF KHLWKQVAQN LDRFRTFPRL AGECEGKKNFH</p> <p>FVHSSADVDS VVSGTLRSAF EYGGQKCSAC SRLYVPQSLW PQIKGRLLLE HSRIKVGNP</p> <p>A EDFTGTFSSAV IDAKAFARIK KWLEHARSSP SLSILAGGQC NESVG YFVEP CIIESKDPQE</p> <p>PIMKEEIFGP VLT VYVYPDE KYRETLQLVD STTSYGLTGA VFAQDKTIVQ EATRMLRNAA</p> <p>GNFYINDKST GSVVGQQPFG GARASGERDI PGQPRLVQLW TEPFPTPLAV SPPLGDWRYYS YMQ</p>
Specificity:	Rattus norvegicus (Rat)
Characteristics:	Please inquire if you are interested in this recombinant protein expressed in E. coli, mammalian cells or by baculovirus infection. Be aware about differences in price and lead time.

## Product Details

Purity: > 90 %

## Target Details

Target: ALDH4A1

Alternative Name: Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial (Aldh4a1) ([ALDH4A1 Products](#))

Background: Recommended name: Delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial.  
Short name= P5C dehydrogenase.  
EC= 1.5.1.12.  
Alternative name(s): Aldehyde dehydrogenase family 4 member A1

UniProt: [P0C2X9](#)

Pathways: [Monocarboxylic Acid Catabolic Process](#)

## Application Details

Comment: The yeast protein expression system is the most economical and efficient eukaryotic system for secretion and intracellular expression. A protein expressed by the mammalian cell system is of very high-quality and close to the natural protein. But the low expression level, the high cost of medium and the culture conditions restrict the promotion of mammalian cell expression systems. The yeast protein expression system serve as a eukaryotic system integrate the advantages of the mammalian cell expression system. A protein expressed by yeast system could be modified such as glycosylation, acylation, phosphorylation and so on to ensure the native protein conformation. It can be used to produce protein material with high added value that is very close to the natural protein. Our proteins produced by yeast expression system has been used as raw materials for downstream preparation of monoclonal antibodies.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Concentration: 0.2-2 mg/mL

Buffer: Tris-based buffer, 50 % glycerol

Handling Advice: Repeated freezing and thawing is not recommended. Store working aliquots at 4 °C for up to one week

## Handling

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Storage: -20 °C

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Storage Comment: Store at -20 °C, for extended storage, conserve at -20 °C or -80 °C.