

Recombinant Full Length Human ALDH4A1 Protein, GST-tagged

Cat. No. ALDH4A1-1410HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDH4A1 full-length ORF (AAH07581, 1 a.a. - 563 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	563 amino acids
Description	This protein belongs to the aldehyde dehydrogenase family of proteins. This enzyme is a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutamate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosomal recessive disorder characterized by accumulation of delta-1-pyrroline-5-carboxylate (P5C) and proline. Alternatively spliced transcript variants encoding different isoforms have been identified for this gene. [provided by RefSeq, Jun 2009]
Molecular Mass	87.67 kDa
AA Sequence	MLLPAPALRR ALLSRPWTGA GLRWKHTSSL KVANEPVLAF TQGSPERDAL QKALKDLKGR MEAIPCVVGD EEVWTSVQY QVSPFNHGHK VAKFCYADKS LLNKAIEAAL AARKEWDLKP IADRAQIFLK AADMLSGPRR AEILAKTMVG QGKTVIQAEI DAAAEIDFF RFNAKYAVEL EGQQPISVPP STNSTVYRGL EGFVAAISPF NFTAIGGNLA GAPALMGNVV LWKPSDTAML ASYAVYRILR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

EAGLPPNIIQ FVPADGPLFG DTVTSSEHLC GINFTGSVPT FKHLWKQVAQ
 NLDRFHTFPR LAGECGGKNF HFVHRSADVE SVVSGTLRSA FEYGGQKCSA
 CSRLYVPHSL WPQIKGRLL EHSRIKVGDP AEDFGTFFSA VIDA KSFARI
 KKWLEHARSS PSLTILAGGK CDDSVGYFVE PCIVESKDPQ EPIMKEEIFG
 PVLSVYVYPD DKYKETLQLI DSTTSYGLTG AVFSQDKD VV QEATKVL RNA
 AGNFYINDKS TGSIVGQQPF GGARASGTND KPGGPHYILR WTSPQVIKET
 HKPLGDWSYA YMQ

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

[ALDH4A1 aldehyde dehydrogenase 4 family, member A1 \[Homo sapiens \]](#)

Official Symbol

[ALDH4A1](#)

Synonyms

ALDH4A1; aldehyde dehydrogenase 4 family, member A1; ALDH4; delta-1-pyrroline-5-carboxylate dehydrogenase, mitochondrial; P5CDh; P5C dehydrogenase; aldehyde dehydrogenase family 4 member A1; mitochondrial delta-1-pyrroline 5-carboxylate dehydrogenase; P5CD; DKFZp779M035

Gene ID

[8659](#)

mRNA Refseq

[NM_001161504](#)

Protein Refseq

[NP_001154976](#)

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MIM	606811
UniProt ID	P30038

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