

Recombinant Human ALDH4A1 Protein, GST-tagged

Cat. No. ALDH4A1-449H **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	Wheat Germ
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	MLLPAPALRRALLSRPWTGAGLRWKHTSSLKVANEPVLAFTQGSPERDALQKALKD LKGRMEAIPC VVGDEEVWTS DVQYQVSPFNHGHKVAKFCYADKSLLNKAIEAALAA RKEWDLKPIADRAQIFLKAADMLSGPRRAEILAKTMVGQGKTVIQAEIDAAAELIDFFR FNAKYAVELEGQQPISVPPSTNSTVYRGLEGFVAAISPFNFTAIGGNLAGAPALMGN VVLWKPSDTAMLASYAVYRILREAGLPPNIIQFVPADGPLFGDVTSSSEHLCGINFTG SVPTFKHLWKQVAQNLDRFHTFPRLAGECGGKNFHFVHRSADVESVVSGLRSLAF EYGGQKCSACSRLYVPHSLWPQIKGRLL EEHSRIKVGDP AEDFGTFFSAVIDAKSFA

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RIKKWLEHARSSPSLILAGGKCDDSVGYFVEPCIVESKDPQEPIMKEEIFGPVLSVY
 VYPDDKYKETLQLIDSTTSYGLTGAVFSQDKDQVVEATKVLRNAAGNFYINDKSTGSI
 VGQQPFGGARASGTNDKPGGPHYILRWTSQVIKETHKPLGDWSYAYMQ

Applications

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

Notes

Best use within three months from the date of receipt of this protein.

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](#)

MIM

[606811](#)

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UniProt ID

P30038



12.5% SDS-PAGE Stained with Coomassie Blue.

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