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 i s a mitochondrial matrix NAD-dependent dehydrogenase which catalyzes the second step of the proline degradation pathway, converting pyrroline-5-carboxylate to glutam ate. Deficiency of this enzyme is associated with type II hyperprolinemia, an autosom al 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 EEVWTSDVQY QVSPFNHGHK VAKFCYADKS LLNKAIEAAL AARKEWDLKP IADRAQIFLK AADMLSGPRR AEILAKTMVG QGKTVIQAEI DAAAELIDFF RFNAKYAVEL EGQQPISVPP STNSTVYRGL EGFVAAISPF NFTAIGGNLA GAPALMGNVV LWKPSDTAML ASYAVYRILR

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	EAGLPPNIIQ FVPADGPLFG DTVTSSEHLC GINFTGSVPT FKHLWKQVAQ NLDRFHTFPR LAGECGGKNF HFVHRSADVE SVVSGTLRSA FEYGGQKCSA CSRLYVPHSL WPQIKGRLLE EHSRIKVGDP AEDFGTFFSA VIDAKSFARI KKWLEHARSS PSLTILAGGK CDDSVGYFVE PCIVESKDPQ EPIMKEEIFG PVLSVYVYPD DKYKETLQLI DSTTSYGLTG AVFSQDKDVV QEATKVLRNA 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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