Recombinant Human ALDH4A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ALDH4A1-4755H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALDH4A1 MS Standard C13 and N15-labeled recombinant protein (NP_733844) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	61.7 kDa
AA Sequence	MLLPAPALRRALLSRPWTGAGLRWKHTSSLKVANEPVLAFTQGSPERDALQKALKD LKGRMEAIPCVVGDEEVWTSDVQYQVSPFNHGHKVAKFCYADKSLLNKAIEAALAA RKEWDLKPIADRAQIFLKAADMLSGPRRAEILAKTMVGQGKTVIQAEIDAAAELIDFFR FNAKYAVELEGQQPISVPPSTNSTVYRGLEGFVAAISPFNFTAIGGNLAGAPALMGN VVLWKPSDTAMLASYAVYRILREAGLPPNIIQFVPADGPLFGDTVTSSEHLCGINFTG SVPTFKHLWKQVAQNLDRFHTFPRLAGECGGKNFHFVHRSADVESVVSGTLRSAF

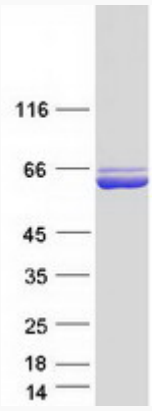
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	EYGGQKCSACSRLYVPHSLWPQIKGRLLEEHSRIKVGDPAEDFGTFFSAVIDAKSFA RIKKWLEHARSSPSLTILAGGKCDDSVGYFVEPCIVESKDPQEPIMKEEIFGPVLSVY VYPDDKYKETLQLVDSTTSYGLTGAVFSQDKDVVQEATKVLRNAAGNFYINDKSTG SIVGQQPFGGARASGTNDKPGGPHYILRWTSPQVIKETHKPLGDWSYAYMQSGPT RTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ALDH4A1 aldehyde dehydrogenase 4 family member A1 [Homo sapiens (human)]
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_170726

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Protein Refseq	NP_733844
MIM	606811
UniProt ID	P30038
SDS-PAGE	

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