

Recombinant Full Length Human ALDH18A1 Protein, C-Flag-tagged

Cat. No. ALDH18A1-896HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ALDH18A1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	This gene is a member of the aldehyde dehydrogenase family and encodes a bifunctional ATP- and NADPH-dependent mitochondrial enzyme with both gamma-glutamyl kinase and gamma-glutamyl phosphate reductase activities. The encoded protein catalyzes the reduction of glutamate to delta1-pyrroline-5-carboxylate, a critical step in the de novo biosynthesis of proline, ornithine and arginine. Mutations in this gene lead to hyperammonemia, hypoonithinemia, hypocitrullinemia, hypoargininemia and hypoproline and may be associated with neurodegeneration, cataracts and connective tissue diseases. Alternatively spliced transcript variants, encoding different isoforms, have been described for this gene.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	87.1 kDa
AA Sequence	MLSQVYRCGFQPFNQHLLPWVKCTTVFRSHCIQPSVIRHVRWSNIPFITVPLSRTH GKSFAHRSELKHA KRIVVKLGSAVVTRGDECGLALGRLASIVEQVSVLQNQGREGMM LVTSGAVAFGKQRLRHEILLSQSVRQA LHSGQNQLKEMAIPVLEARACAAAGQSGL

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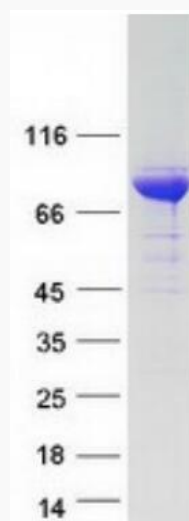
 45-1 Ramsey Road, Shirley, NY 11967, USA

MALYEAMFTQYSICAAQILVTNLDHFDEQKRRNLNGTLHEL LRMNIVPIVNTNDAVV
 PPAEPNSDLQGVNVISVKDNDLSAARLAVEMKTDLLIVLSDVEGLFDSPPGSDD AKL
 IDIFYPGDQQSVTFGIKSRVGMGGMEAKVKAALWALQGGTSVVIANGTHPKVSGHVI
 TDIVEGKKVG TFFSEVKPAGPTVEQQGEMARSGGRMLATLEPEQRAEIIHHLADLLT
 DQRDEILLANKKDLEEAEGRLAA PLLKRLSLSTSKLNSLAIGLRQIAASSQDSVGRVL
 RRTRIAKNLELEQVTVPIGVLLVIFESRPDCLPQV AALAIASGNGLLLKGGKEAAHSN
 RILHLLTQEALSIHGVKEAVQLVNTREEVEDLCRLDKMIDLIIPRGS SQLVRDIQKAAK
 GIPVMGHSEGICHMYVDSEASVDKVTSLVRDSKCEYPAACNALETLLIHRDLLRTPLF
 DQIIDMLRVEQVKIHAGPKFASYLTFSPSEVKSLRTEYGDLELCIEVVDNVQDAIDHIH
 KYGSSHTDVIV TEDENTAEFFLQHVDACSACVFWNASTRFSDGYRFGGLGAEVGISTSRI
 HARGPVGLEGLLTTKWLLRGKDHV
 VSDFSEHGSLKYLHENLPIPQRNTNTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Arginine and proline metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

Gene Name	ALDH18A1 aldehyde dehydrogenase 18 family member A1 [Homo sapiens (human)]
Official Symbol	ALDH18A1
Synonyms	GSAS; P5CS; PYCS; SPG9; ADCL3; SPG9A; SPG9B; ARCL3A
Gene ID	5832
mRNA Refseq	NM_002860.4
Protein Refseq	NP_002851.2
MIM	138250
UniProt ID	P54886



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Coomassie blue staining of purified ALDH18A1 protein.