

Recombinant Human ALDH18A1 Protein, GST-tagged

Cat. No. ALDH18A1-436H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDH18A1 partial ORF (NP_002851, 696 a.a. - 795 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
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, hypoorithinemia, 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. [provided by RefSeq, Jul 2008]
Molecular Mass	36.74 kDa
AA Sequence	TDVIVTEDENTAEFFLQHVDSACVFWNASTRFSDGYRFGGLGAEVGISTSRIHARGPV GLEGLLTTKWLLRGKDHVVSDFSEHGSLKYLHENLPIQRNTN
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

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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	ALDH18A1 aldehyde dehydrogenase 18 family, member A1 [Homo sapiens]
Official Symbol	ALDH18A1
Synonyms	ALDH18A1; aldehyde dehydrogenase 18 family, member A1; GSAS, PYCS, pyrroline 5 carboxylate synthetase (glutamate gamma semialdehyde synthetase); delta-1-pyrroline-5-carboxylate synthase; P5CS; delta1-pyrroline-5-carboxylate synthetase; aldehyde dehydrogenase family 18 member A1; delta-1-pyrroline-5-carboxylate synthetase; pyrroline-5-carboxylate synthetase (glutamate gamma-semialdehyde synthetase); GSAS; PYCS; ARCL3A; MGC117316;
Gene ID	5832
mRNA Refseq	NM_001017423
Protein Refseq	NP_001017423
MIM	138250
UniProt ID	P54886
12.5% SDS-PAGE Stained with Coomassie Blue.	

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