

Recombinant Full Length Human ALDH7A1 Protein, GST-tagged

Cat. No. ALDH7A1-1416HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDH7A1 full-length ORF (NP_001173.1, 1 a.a. - 511 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	511 amino acids
Description	The protein encoded by this gene is a member of subfamily 7 in the aldehyde dehydrogenase gene family. These enzymes are thought to play a major role in the detoxification of aldehydes generated by alcohol metabolism and lipid peroxidation. This particular member has homology to a previously described protein from the green garden pea, the 26g pea turgor protein. It is also involved in lysine catabolism that is known to occur in the mitochondrial matrix. Recent reports show that this protein is found both in the cytosol and the mitochondria, and the two forms likely arise from the use of alternative translation initiation sites. An additional variant encoding a different isoform has also been found for this gene. Mutations in this gene are associated with pyridoxine-dependent epilepsy. Several related pseudogenes have also been identified. [provided by RefSeq, Jan 2011]
Molecular Mass	81.8 kDa
AA Sequence	MSTLLINQPQ YAWLKELGLR EENEGVYNGS WGGRGEVITT YCPANNEPIA

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

RVRQASVADY EETVKKAREA WKIWADIPAP KRGEIVRQIG DALREKIQVL
 GSLVSLEMKG ILVEGVGEVQ EYVDICDYAV GLSRMIGGPI LPSESRGHAL
 IEQWNPVGLV GIITAFNFPV AVYGWNNIAA MICGNVCLWK GAPTTSLISV
 AVTKIIAKVL EDNKLPGAIC SLTCGGADIG TAMAKDERVN LLSFTGSTQV
 GKQVGLMVQE RFGRSLLELG GNNAIIFED ADLSLVVPSA LFAAVGTAGQ
 RCTTARRLFH HESIHDEVVN RLKKAYAQIR VGPNWDPNVL YGPLHTKQAV
 SMFLGAVEEA KKEGGTVVYG GKVMRPGNY VEPTIVTGLG HDASIAHTET
 FAPILYVFKF KNEEEVFAWN NEVKQGLSSS IFTKDLGRIF RWLGPKGSDC
 GIVNVNIPTS GAEIGGAFGG EKHTGGGRES GSDAWKQYMR RSTCTINYSK
 DLPLAQGIKF Q

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

[ALDH7A1 aldehyde dehydrogenase 7 family, member A1 \[Homo sapiens \]](#)

Official Symbol

[ALDH7A1](#)

Synonyms

ALDH7A1; aldehyde dehydrogenase 7 family, member A1; ATQ1; alpha-aminoadipic semialdehyde dehydrogenase; 26g turgor protein homolog; alpha AASA dehydrogenase; alpha aminoadipic semialdehyde dehydrogenase; antiquitin 1; delta1 piperidine 6 carboxylate dehydrogenase; EPD; P6c dehydrogenase; PDE; antiquitin-1; alpha-AASA dehydrogenase; betaine aldehyde dehydrogenase; delta1-piperidine-6-carboxylate dehydrogenase; FLJ11738; FLJ92814

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Gene ID	501
mRNA Refseq	NM_001182
Protein Refseq	NP_001173
MIM	107323
UniProt ID	P49419

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