

## Recombinant Human ALDH7A1 293 Cell Lysate

**Cat. No.** ALDH7A1-8915HCL    **Lot. No.** (See product label)

### SPECIFICATION

<b>Species</b>	Human
<b>Source</b>	HEK293
<b>Description</b>	Antigen standard for aldehyde dehydrogenase 7 family, member A1 (ALDH7A1) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
<b>Components</b>	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
<b>Size</b>	0.1 mg
<b>Storage Instruction</b>	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.
<b>Applications</b>	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

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

mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## 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 piperideine 6 carboxylate dehydrogenase; EPD; P6c dehydrogenase; PDE; antiquitin-1; alpha-AASA dehydrogenase; betaine aldehyde dehydrogenase; delta1-piperideine-6-carboxylate dehydrogenase; FLJ11738; FLJ92814;

**Gene ID** [501](#)

**mRNA Refseq** [NM\\_001182](#)

**Protein Refseq** [NP\\_001173](#)

**MIM** [107323](#)

**UniProt ID** [P49419](#)

**Chromosome Location** [5q31](#)

**Pathway** [Arginine and proline metabolism, organism-specific biosystem](#); [Arginine and proline metabolism, conserved biosystem](#); [Ascorbate and aldarate metabolism, organism-specific biosystem](#); [Ascorbate and aldarate metabolism, conserved biosystem](#); [Fatty](#)

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acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; GABA biosynthesis, eukaryotes, putrescine =>

**Function**

L-aminoadipate-semialdehyde dehydrogenase activity; aldehyde dehydrogenase (NAD) activity; betaine-aldehyde dehydrogenase activity; oxidoreductase activity; protein binding;

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