

## Product datasheet for **TP720901M**

### **ALDH1A1 (NM\_000689) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Purified recombinant protein of Human aldehyde dehydrogenase 1 family, member A1 (ALDH1A1)
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Met1-Ser501
<b>Tag:</b>	N-His
<b>Predicted MW:</b>	57 kDa
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
<b>Endotoxin:</b>	Endotoxin level is < 0.1 ng/µg of protein (< 1 EU/µg)
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_000680</a>
<b>Locus ID:</b>	216
<b>UniProt ID:</b>	<a href="#">P00352</a> , <a href="#">V9HW83</a>
<b>RefSeq Size:</b>	2116
<b>Cytogenetics:</b>	9q21.13
<b>RefSeq ORF:</b>	1503
<b>Synonyms:</b>	ALDC; ALDH-E1; ALDH1; ALDH11; HEL-9; HEL-S-53e; HEL12; PUMB1; RALDH1



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**Summary:** The protein encoded by this gene belongs to the aldehyde dehydrogenase family. Aldehyde dehydrogenase is the next enzyme after alcohol dehydrogenase in the major pathway of alcohol metabolism. There are two major aldehyde dehydrogenase isozymes in the liver, cytosolic and mitochondrial, which are encoded by distinct genes, and can be distinguished by their electrophoretic mobility, kinetic properties, and subcellular localization. This gene encodes the cytosolic isozyme. Studies in mice show that through its role in retinol metabolism, this gene may also be involved in the regulation of the metabolic responses to high-fat diet. [provided by RefSeq, Mar 2011]

**Protein Families:** Druggable Genome, ES Cell Differentiation/IPS

**Protein Pathways:** Metabolic pathways, Retinol metabolism