

# Recombinant Full Length Human ALDH1A2 Protein, GST-tagged

**Cat. No.** ALDH1A2-1401HF    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human ALDH1A2 full-length ORF ( NP_733797.1, 1 a.a. - 480 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	480 amino acids
<b>Description</b>	This protein belongs to the aldehyde dehydrogenase family of proteins. The product of this gene is an enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. Retinoic acid, the active derivative of vitamin A (retinol), is a hormonal signaling molecule that functions in developing and adult tissues. The studies of a similar mouse gene suggest that this enzyme and the cytochrome CYP26A1, concurrently establish local embryonic retinoic acid levels which facilitate posterior organ development and prevent spina bifida. Four transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq, May 2011]
<b>Molecular Mass</b>	79.5 kDa
<b>AA Sequence</b>	MTSSKIEMPG EVKADPAALM ASLHLLPSPT PNLEIKYTKI FINNEWQNSE SGRVFPVYNP ATGEQVCEVQ EADKADIDKA VQAARLAFSL GSVWRRMDAS ERGRLLDKLA DLVERDRAVL ATMESLNGGK PFLQAFYVDL QGVIKTFRY AGWADKIHGM TIPVDGDYFT FTRHEPIGVC GQIIPWNFPL LMFawkIAPA

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LCCGNTVVIK PAEQTPLSAL YMGALIKEVG KLIQEAAGRS NLKRVTLLELG  
 GKSPNIIFAD ADLDYAVEQA HQGVFFNQQG CCTAGSRIFV EESIYEEFVR  
 RSVERAKRRV VGSPFDPTTE QGPQIDKKQY NKILELIQSG VAEGAKLECG  
 GKGLGRKGFF IEPTVFSNVT DDMRIAKEEI FGPVQEILRF KTMDEVIERA  
 NNSDFGLVAA VFTNDINKAL TVSSAMQAGT VWINCYNALN AQSPFGGFKM  
 SGNGREMGEF GLREYSEVKT VTVKIPQKNS

**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**

[ALDH1A2 aldehyde dehydrogenase 1 family member A2 \[ Homo sapiens \(human\) \]](#)

**Official Symbol**

[ALDH1A2](#)

**Synonyms**

ALDH1A2; aldehyde dehydrogenase 1 family member A2; RALDH2; RALDH2-T;  
 RALDH(II); retinal dehydrogenase 2; RALDH 2; retinaldehyde-specific  
 dehydrogenase type 2; EC 1.2.1.36

**Gene ID**

[8845](#)

**mRNA Refseq**

[NM\\_001206897](#)

**Protein Refseq**

[NP\\_001193826](#)

**MIM**

[603687](#)

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UniProt ID

O94788

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