

Recombinant Full Length Human ALDH1A2 Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human ALDH1A2 full-length ORF (NP_733797.1, 1 a.a. - 480 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	480 amino acids
Description	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]
Molecular Mass	79.5 kDa
AA Sequence	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 HQGVFFNQGG 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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