

## Product datasheet for **TP727496**

### ALDH1A2 Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Aldehyde Dehydrogenase 1-A2/ALDH1A2 (N-6His)
Species:	Human
Expression cDNA Clone or AA Sequence:	Met1-Ser518
Tag:	N-His
Buffer:	Supplied as a 0.2 um filtered solution of 20mM TrisHCl, 150mM NaCl, 20% Glycerol, pH 7.5.
Note:	Recombinant Human Aldehyde dehydrogenase family 1 member A2 is produced by our E.coli expression system and the target gene encoding Met1-Ser518 is expressed with a 6His tag at the N-terminus.
Storage:	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Stability:	12 months from date of despatch
Locus ID:	8854
UniProt ID:	<a href="#">O94788</a>
Synonyms:	Aldehyde dehydrogenase family 1 member A2; Retinaldehyde-specific dehydrogenase type 2; RALDH(II); Retinal dehydrogenase 2; ALDH1A2; RALDH2
Summary:	Aldehyde dehydrogenase 1 family member A2 (ALDH1A2), also known as retinaldehyde dehydrogenase 2 (RALDH2), belongs to the aldehyde dehydrogenase family which contains two members, the ALDH1 s (ALDH1A1, ALDH1A2 and ALDH1A3) and the 9-cis retinaldehyde dehydrogenase ALDH8 s. ALDH1A2 is key enzyme that catalyzes the synthesis of retinoic acid (RA) from retinaldehyde. RA is a paracrine hormone signaling molecule that functions in developing and adult tissues. ALDH1A2 was also found to regulate normal and tumor cell growth and differentiation. Several studies showed that ALDH1A2 expression is increased after the appearance of AraC resistance in clinical cases which means this protein is effective in AraC resistance.
Protein Families:	Druggable Genome
Protein Pathways:	Metabolic pathways, Retinol metabolism



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