# Recombinant Human ALDH8A1 Protein, GST-tagged

**Cat. No.** ALDH8A1-453H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Human ALDH8A1 full-length ORF ( NP_072090.1, 1 a.a. - 487 a.a.) recombinant protein with GST-tag at N-terminal. |
| **Species** | Human |
| **Source** | Wheat Germ |
| **Description** | This protein belongs to the aldehyde dehydrogenases family of proteins. It plays a role in a pathway of 9-cis-retinoic acid biosynthesis in vivo. This enzyme converts 9-cis-retinal into the retinoid X receptor ligand 9-cis-retinoic acid, and has approximately 40-fold higher activity with 9-cis-retinal than with all-trans-retinal. Therefore, it is the first known aldehyde dehydrogenase to show a preference for 9-cis-retinal relative to all-trans-retinal. Three transcript variants encoding distinct protein isoforms have been identified for this gene. [provided by RefSeq, Jul 2010] |
| **Molecular Mass** | 79.8 kDa |
| **AA Sequence** | MAGTNALLMLENFIDGKFLPCSSYIDSYDPSTGEVYCRVPNSGKDEIEAAVKAAREA FPSWSSRSPQERSRVLNQVADLLEQSLEEFAQAESKDQGKTLALARTMDIPRSVQN FRFFASSSLHHTSECTQMDHLGCMHYTVRAPVGVAGLISPWNLPLYLLTWKIAPAM AAGNTVIAKPSELTSVTAWMLCKLLDKAGVPPGVVNIVFGTGPRVGEALVSHPEVPLI SFTGSQPTAERITQLSAPHCKKLSLELGGKNPAIIFEDANLDECIPATVRSSFANQGEI CLCTSRIFVQKSIYSEFLKRFVEATRKWKVGIPSDPLVSIGALISKAHLEKVRSYVKRA LAEGAQIWCGEGVDKLSLPARNQAGYFMLPTVITDIKDESCCMTEEIFGPVTCVVPF |

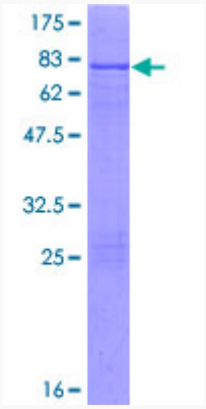
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|---|---|
| | DSEEEVIERANNVKYGLAATVWSSNVGRVHRVAKKLQSGLVWTNCWLIRELNLPFG GMKSSGIGREGAKDSYDFFTEIKTITVKH |
| **Applications** | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array |
| **Notes** | Best use within three months from the date of receipt of this protein. |
| **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

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| **Gene Name** | ALDH8A1 aldehyde dehydrogenase 8 family, member A1 [ Homo sapiens ] |
| **Official Symbol** | ALDH8A1 |
| **Synonyms** | ALDH8A1; aldehyde dehydrogenase 8 family, member A1; aldehyde dehydrogenase family 8 member A1; ALDH12; aldehyde dehydrogenase 12; aldehyde dehydrogenase family protein; DJ352A20.2; MGC138650; DKFZp779D2315; |
| **Gene ID** | 64577 |
| **mRNA Refseq** | NM_001193480 |
| **Protein Refseq** | NP_001180409 |
| **MIM** | 606467 |
| **UniProt ID** | Q9H2A2 |

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12.5% SDS-PAGE Stained with Coomassie Blue.

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