

Recombinant Human ALDH8A1 Protein, GST-tagged

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

SPECIFICATION

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 FPSWSSSRSPQERSRVLNQVADLLEQSLEEFQAESKDQGKTLALARTMDIPRSVQN FRFFASSSLHHTSECTQMDHLGCMHYTVRAPVGVAGLISPWNLPYLLTWKIAPAM AAGNTVIAKPSELTSVTAWMLCKLLDKAGVPPGVVNIVFGTGPRVGEALVSHPEVPLI SFTGSQPTAERITQLSAPHCKKLSLELGGKNPAIIFEDANLDECIPATVRSSFANQGEI CLCTSRIFVQKSIYSEFLKRFVEATRKKWKGIPSDPLVSIGALISKAHLEKVRSYVKRA LAEGAQIWCGEVDKLSLPARNQAGYFMLPTVITDIKDESCCMTEEIFGPVTCVVPF

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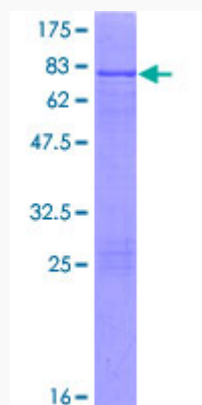
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	DSEEEVIERANNVKYGLAATVWSSNVGRVHRVAKKLQSGLVWTNCWLIRELNLPFG GMKSSGIGREGAKDSYDFFTEIKTITVKH
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from 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	
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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