

Recombinant Full Length Human ALDH8A1 Protein, GST-tagged

Cat. No. ALDH8A1-1417HF **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	In Vitro Cell Free System
ProteinLength	487 amino acids
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	MAGTNALLML ENFIDGKFLP CSSYIDSYDP STGEVYCRVP NSGKDEIEAA VKAAREAFPS WSSRSPQERS RVLNQVADLL EQSLEEFAQA ESKDQGKTLA LARTMDIPRS VQNFRFFASS SLHHTSECTQ MDHLGCMHYT VRAPVGVAGL ISPWNLPLYL LTWKIAPAMA AGNTVIKPS ELTSVTAWML CKLLDKAGVP PGVVNIVFGT GPRVGEALVS HPEVPLISFT GSQPTAERIT QLSAPHCKKL

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SLELGKKNPA IIFEDANLDE CIPATVRSSF ANQGEICLCT SRIFVQKSIY
SEFLKRFVEA TRKWKVGIPS DPLVSGALI SKAHLEKVRS YVKRALAEGA
QIWCGEVVDK LSLPARNQAG YFMLPTVITD IKDESCCMTE EIFGPVTCVV
PFDSEEEVIE RANNVKYGLA ATWSSNVGR VHRVAKKLQS GLVWTNCWLI
RELNLPGGM KSSGIGREGA KDSYDFFTEI KTITVKH

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

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

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UniProt ID

Q9H2A2

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