

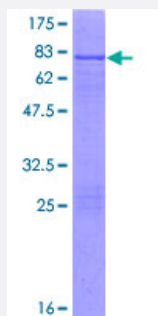
Full-Length

ALDH8A1 (Human) Recombinant Protein (P01)

Catalog # H00064577-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human ALDH8A1 full-length ORF (NP_072090.1, 1 a.a. - 487 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MAGTNALLMLENFIDGKFLPCSSYDSYDPSTGEVYCRVPNSGKDEIEAAVKAAREAFPSWSSRS
PQERSRVLNQVADLLEQSLEEFQAESKDQGKTLALARTMDIPRSVQNFRFFASSSLHHTSECT
QMDHLGCMHYTVRAPVGVAGLISPWNPLPYLLTWKIAPAMAAAGNTVIAKPSELTSVTAWMLCKLL
DKAGVPPGVVNVFGTGPRVGEALVSHPEVPLISFTGSQPTAERITQLSAPHCKKLSLELGKKNPA
IIFEDANLDECIPATVRSSFANQGEICLCTSRIFVQKSIYSEFLKRFVEATRKKWKVGIPSDPLVSIGALI
SKAHLEKVRSYVKRALAEGAQIWC GEGVDKLSLPARNQAGYFMLPTVITDIKDESCCMTEEIFGP
VTCVVPFDSEEEVIERANNVKYGLAATVWSSNVGRVHRVAKKLQSGLVWTNCWLIRELNLPFGG
MKSSGIGREGAKDSYDFFTEIKTITVKH

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

79.8

Interspecies Antigen Sequence

Mouse (89)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — ALDH8A1

Entrez GeneID	64577
GeneBank Accession#	NM_022568.2
Protein Accession#	NP_072090.1
Gene Name	ALDH8A1
Gene Alias	ALDH12, DJ352A20.2, DKFZp779D2315, MGC138650
Gene Description	aldehyde dehydrogenase 8 family, member A1
Omim ID	606467
Gene Ontology	Hyperlink
Gene Summary	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. Two transcript variants encoding distinct isoforms have been identified for this gene. [provided by RefSeq]
Other Designations	aldehyde dehydrogenase 8 family, member A1 aldehyde dehydrogenase 12 aldehyde dehydrogenase 8A1 aldehyde dehydrogenase family protein