

Recombinant Human ALDH8A1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ALDH8A1-1807H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALDH8A1 MS Standard C13 and N15-labeled recombinant protein (NP_072090) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the aldehyde dehydrogenase family of proteins. The encoded protein has been implicated in the synthesis of 9-cis-retinoic acid and in the breakdown of the amino acid tryptophan. 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. In addition, this enzyme has been shown to catalyze the conversion of 2-aminomuconic semialdehyde to 2-aminomuconate in the kynurenine pathway of tryptophan catabolism.
Molecular Mass	53.4 kDa
AA Sequence	MAGTNALLMLENFIDGKFLPCSSYIDSYDPSTGEVYCRVPNSGKDEIEAAVKAAREA FPSWSSSRSPQERSRVLNQVADLLEQSLEEFQAESKDQGKTLALARTMDIPRSVQN FRFFASSSLHHTSECTQMDHLGCMHYTVRAPVGVAGLISPNLPLYLLTWKIAPAM AAGNTVIKPSELTSVTAWMLCKLLDKAGVPPGVVNIVFGTGPRVGEALVSHPEVPLI SFTGSQPTAERITQLSAPHCKKLSLELGKKNPAIIFEDANLDECIPATVRSSFANQGEI CLCTSRIFVQKSIYSEFLKRFVEATRKWKVGIPSDPLVSIGALISKAHLEKVRSYVKRA

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LAEGAQIWC GEGVDKLSLPARNQAGYFMLPTVITDIKDESCCMTEEIFGPVTCVVPF
DSEEEVIERANNVKYGLAATVWSSNVGRVHRVAKKLQSGLVWTNCWLIRELNLPFG
GMKSSGIGREGAKDSYDFFTEIKTITVKHTRTRPLEQKLISEEDLAANDILDYKDDDD
KV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name ALDH8A1 aldehyde dehydrogenase 8 family member A1 [Homo sapiens (human)]

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_022568

Protein Refseq NP_072090

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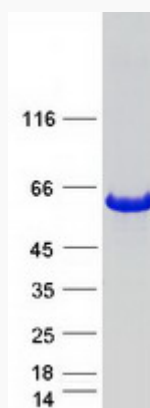
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MIM 606467

UniProt ID Q9H2A2

SDS-PAGE



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