

Recombinant Human Aldehyde Dehydrogenase 8 Family, Member A1, His-tagged

Cat. No. ALDH8A1-503H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH8A1 protein was expressed as 6-his-tagged fusion protein by E. coli and purified by Ni-sepharose. The purified protein was resolved in 1M P BS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15% glycerol. MW=44 kDa.
Species	Human
Source	E.coli
Description	ALDH8A1 belongs to the aldehyde dehydrogenase family of proteins. It plays a role in a pathway of 9-cis-retinoic acid biosynthesis in vivo. ALDH8A1 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.
Antigen peptide region	C-352aa
Molecular Weight	44 kDa
Full length	False

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Storage

The protein is stored in PBS buffer at -20°C. Repeated freeze-thaw cycles should be avoided.

GENE INFORMATION
Gene Name

ALDH8A1 aldehyde dehydrogenase8 family, member A1 [Homo sapiens]

Official Symbol

ALDH8A1

Synonyms

ALDH8A1; aldehyde dehydrogenase 8 family, member A1; ALDH12; DKFZp779D2315; MGC138650; DJ352A20.2; aldehyde dehydrogenase family 8 member A1; aldehyde dehydrogenase12; aldehyde dehydrogenase family protein; EC 1.2.1.-; EC 1.2.1; EC 1.2.1.3; OTTHUMP00000017250; OTTHUMP00000017251; OTTHUMP000000234165

Gene ID

64577

mRNA Refseq

NM_022568

Protein Refseq

NP_072090

MIM

606467

UniProt ID

Q9H2A2

Chromosome Location

6q23.2

Function

oxidoreductase activity; retinal dehydrogenase activity

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