

Recombinant Human ALDH8A1, His-tagged

Cat. No. ALDH8A1-9565H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH8A1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	C-term-352a.a.
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.
Storage	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
Storage Buffer	1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

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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
Chromosome Location	6q24.1-q25.1
Function	oxidoreductase activity; retinal dehydrogenase activity;