

Recombinant Human Aldehyde Dehydrogenase 1 Family, Member L1, His-tagged

Cat. No. ALDH1L1-491H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH1L1 protein was expressed as 6-his-tagged fusion protein by E. coli and purified by Ni-sepharose. The purified protein was resolved in 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. MW= 44 kDa.
Species	Human
Source	E.coli
Description	ALDH1L1 encoded by this gene catalyzes the conversion of 10-formyltetrahydrofolate, NADP, and water to tetrahydrofolate, NADPH, and carbon dioxide. ALDH1L1 belongs to the aldehyde dehydrogenase family and is responsible for formate oxidation in vivo. Deficiencies in ALDH1L1 can result in an accumulation of formate and subsequent methanol poisoning.
Antigen peptideregion	157-505aa
Molecular Weight	44 kDa
Full length	False
Storage	The protein is stored in PBS buffer at -20°C. Repeated freeze-thaw cycles should be avoided.

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GENE INFORMATION

Gene Name	ALDH1L1 aldehyde dehydrogenase1 family, member L1 [Homo sapiens]
Official Symbol	ALDH1L1
Synonyms	ALDH1L1;aldehyde dehydrogenase 1 family, member L1; FDH; FTHFD; 10-fTHF; cytosolic10-formyltetrahydrofolate dehydrogenase; 10-FTHFDH; formyltetrahydrofolatedehydrogenase; 10-formyltetrahydrofolate dehydrogenase; aldehydedehydrogenase family 1 member L1; EC 1.5.1.6; DKFZp781N0997;OTTHUMP00000155221; OTTHUMP00000214696; OTTHUMP00000214700;OTTHUMP00000222724
Gene ID	10840
mRNA Refseq	NM_012190
Protein Refseq	NP_036322
MIM	600249
UniProt ID	O75891
Chromosome Location	3q21.3
Pathway	One CarbonMetabolism; One carbon pool by folate
Function	acyl carrieractivity; catalytic activity; cofactor binding; formyltetrahydrofolatedehydrogenase activity; hydroxymethyl-, formyl- and related transferaseactivity; methyltransferase activity; oxidoreductase activity;

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oxidoreductase activity, acting on the aldehyde or oxo group of donors, NAD or NADP as acceptor

**PDB rendering based
on 1s3i.**

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