

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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