

Recombinant Human ALDH1L1, His-tagged

Cat. No. ALDH1L1-9554H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ALDH1L1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	157-505a.a.
Description	The protein encoded by this gene catalyzes the conversion of 10-formyltetrahydrofolate, nicotinamide adenine dinucleotide phosphate (NADP+), and water to tetrahydrofolate, NADPH, and carbon dioxide. The encoded protein belongs to the aldehyde dehydrogenase family. Loss of function or expression of this gene is associated with decreased apoptosis, increased cell motility, and cancer progression. There is an antisense transcript that overlaps on the opposite strand with this gene locus. Alternative splicing results in multiple transcript variants.
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

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Gene Name	ALDH1L1 aldehyde dehydrogenase 1 family, member L1 [Homo sapiens]
Official Symbol	ALDH1L1
Synonyms	ALDH1L1; aldehyde dehydrogenase 1 family, member L1; formyltetrahydrofolate dehydrogenase , FTHFD; cytosolic 10-formyltetrahydrofolate dehydrogenase; 10 fTHF; cytosolic 10 formyltetrahydrofolate dehydrogenase; 10-FTHFDH; formyltetrahydrofolate dehydrogenase; 10-formyltetrahydrofolate dehydrogenase; aldehyde dehydrogenase family 1 member L1; FDH; FTHFD; 10-fTHF; DKFZp781N0997;
Gene ID	10840
mRNA Refseq	NM_012190
Protein Refseq	NP_036322
MIM	600249
UniProt ID	O75891
Chromosome Location	3q21.2
Pathway	One Carbon Metabolism, organism-specific biosystem; One carbon pool by folate, organism-specific biosystem; One carbon pool by folate, conserved biosystem;
Function	acyl carrier activity; catalytic activity; cofactor binding; formyltetrahydrofolate dehydrogenase activity; hydroxymethyl-, formyl- and related transferase activity; methyltransferase activity; oxidoreductase activity; oxidoreductase activity, acting on t

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