Recombinant Human ALDH1L1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. ALDH1L1-5813H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	ALDH1L1 MS Standard C13 and N15-labeled recombinant protein (NP_036322) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	98.6 kDa
AA Sequence	MKIAVIGQSLFGQEVYCHLRKEGHEVVGVFTVPDKDGKADPLGLEAEKDGVPVFKY SRWRAKGQALPDVVAKYQALGAELNVLPFCSQFIPMEIISAPRHGSIIYHPSLLPRHR GASAINWTLIHGDKKGGFSIFWADDGLDTGDLLLQKECEVLPDDTVSTLYNRFLFPE GIKGMVQAVRLIAEGKAPRLPQPEEGATYEGIQKKETAKINWDQPAEAIHNWIRGND KVPGAWTEACEQKLTFFNSTLNTSGLVPEGDALPIPGAHRPGVVTKAGLILFGNDDK MLLVKNIQLEDGKMILASNFFKGAASSVLELTEAELVTAEAVRSFWQRILPKVLEVED

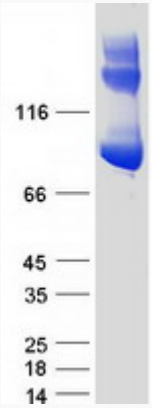
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	STDFFKSGAASVDVVRLVEEVKELCDGLELENEDVYMASTFGDFIQLLVRKLRGHDE EGECSIDYVEMAVNKRTVRMPHQLFIGGEFVDAEGAKTSETINPTDGSVICQVSLAQ VTDVDKAVAAAKDAFENGRWGKIGARDRGRLMYRLADLMEQHQEELATIEALDAGA VYTLALKTHVGMSIQTFRYFAGWCDKIQGSTIPINQARPNRNLTLTRKEPVGVCGIIIP WNYPLMMLSWKTAACLAAGNTVVIKPAQVTPLTALKFAELTLKAGIPKGVVNVLPGS GSLVGQRLSDHPDVRKIGFTGSTEVGKHIMKSCAISNVKKVSLELGGKSPLIIFADCD LNKAVQMGMSSVFFNKGENCIAAGRLFVEDSIHDEFVRRVVEEVRKMKVGNPLDRD TDHGPQNHHAHLVKLMEYCQHGVKEGATLVCGGNQVPRPGFFFEPTVFTDVEDHM FIAKEESFGPVMIISRFADGDLDAVLSRANATEFGLASGVFTRDINKALYVSDKLQAG TVFVNTYNKTDVAAPFGGFKQSGFGKDLGEAALNEYLRVKTVTFEYTRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	ALDH1L1 aldehyde dehydrogenase 1 family member L1 [Homo sapiens (human)]
Official Symbol	ALDH1L1
Synonyms	ALDH1L1; aldehyde dehydrogenase 1 family, member L1; formyltetrahydrofolate dehydrogenase, FTHFD; cytosolic 10-formyltetrahydrofolate dehydrogenase; 10

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

	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
SDS-PAGE	

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