

Recombinant Full Length Human ALDH1L2 Protein, GST-tagged

Cat. No. ALDH1L2-1404HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ALDH1L2 full-length ORF (AAI03936.1, 1 a.a. - 488 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	488 amino acids
Description	This gene encodes a member of both the aldehyde dehydrogenase superfamily and the formyl transferase superfamily. This member is the mitochondrial form of 10-formyltetrahydrofolate dehydrogenase (FDH), which converts 10-formyltetrahydrofolate to tetrahydrofolate and CO ₂ in an NADP(+)-dependent reaction, and plays an essential role in the distribution of one-carbon groups between the cytosolic and mitochondrial compartments of the cell. Alternatively spliced transcript variants have been found for this gene.[provided by RefSeq, Oct 2010]
Molecular Mass	79.7 kDa
AA Sequence	MVTFYGSTLL NSSVPPGEPL EIKGAKKPGL VTKNGLVLFG NDGKALTVRN LQFEDGKMIP ASQYFSTGET SVVELTAEV KVAETIKVIW AGILSNVP EDSTDFFKSG ASSMDVARLV EEIRQKCGGL QLQNEVDVMA TKFEGFIQKV VRKLRGEDQE VELVVDYISK EVNEIMVKMP YQCFINGQFT DADDGKTYDT INPTDGSTIC KVSYASLADV DKAVAAAKDA FENGWGRMN ARERGRMLMYR

 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

LADLLEENQE ELATIEALDS GAVYTLALKT HIGMSVQTFR YFAGWCDKIQ
 GSTIPINQAR PNRNLTFTKK EPLGVCAIII PWNYPMLMLA WKSAACLAAG
 NTLVLKPAQV TPLTALKFAE LSVKAGFPKG VINIIPGSGG IAGQRLSEHP
 DIRKLGFTGS TPIGKQIMKS CAVSNLKKVS LELGGKSPLI IFNDCELDKA
 VRMGMGAVFF NKGENCIAAG RLFVEESIHD EFVTRVIH

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
 Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ALDH1L2 aldehyde dehydrogenase 1 family member L2 [Homo sapiens (human)]

Official Symbol

ALDH1L2

Synonyms

ALDH1L2; aldehyde dehydrogenase 1 family member L2; mtFDH; mitochondrial 10-formyltetrahydrofolate dehydrogenase; 10-formyltetrahydrofolate dehydrogenase
 ALDH1L2; aldehyde dehydrogenase family 1 member L2, mitochondrial;
 mitochondrial 10-FTHFDH; probable 10-formyltetrahydrofolate dehydrogenase
 ALDH1L2; EC 1.5.1.6

Gene ID

160428

mRNA Refseq

NM_001034173

Protein Refseq

NP_001029345

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MIM	613584
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UniProt ID	Q3SY69
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