
Product Data Sheet

Product Name: ALDH6A1 Human

Cat. No.: GP21391

Batch No.: 1

Product Data

Purity >98%

Source Escherichia Coli.

Physical Appearance solid

Shipping Condition Shipped with Ice Packs.

Synonyms MMSADHA; MMSDH ; Aldehyde Dehydrogenase 6 Family; MemberA1; Methylmalonate-Semialdehyde Dehydrogenase [Acylating]; Mitochondrial; MitochondrialAcylating Methylmalonate-Semialdehyde Dehydrogenase; Malonate-SemialdehydeDehydrogenase [Acylating]; Aldehyde Dehydrogenase Family 6 Member A1; Malonate-SemialdehydeDehydrogenase; EC 1.2.1.18; EC 1.2.1.27.

Amino Acid Sequence MGSSHHHHHSSGLVPRGSH MGSSSSVPTVKLFIGGKFVE SKSDKWIDIH NPATNEVIGR VPQATKAEMD AAIASCKRAF PAWADTSVLS RQQVLLRYQQLIKENLKEIA KLITLEQGKT LADAEGDVFR GLQVVEHACS VTSLMMGETM PSITKDMDLY SYRLPLGVCAGIAPFNFPAM IPLWMFPMAM VCGNTFLMKP SERVPGATML LAKLLQDSGA PDGTLNIIHG QHEAVNFICDHPDIKAI SFV GSNKAGEYIF ERGSRHGKRV QANMGAKNHG VVMPDANKEN TLNQLVGAAF GAAGQRCMALSTAVLVGEAK KWLPELVEHA KNLRVNAGDQ PGADLGPLIT PQAKERVCNL IDSGTKEGAS ILLDGRKIKVKG YENGNFVG PTIISNVKPN MTCYKEEIFG PVLVVLETET LDEAIQIVNN NPYGNGTAIF TTNGATARKY AHLVDVGQVGVNVPIVPLP MFSFTGSRSS FRGDTNFY GK QGIQFY TQLK TITSQWKEED ATLSSPAVVM PTMGR.

Formulation ALDH6A1protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4), 10%glycerol and 1mM DTT.

Introduction

ALDH6A1or Methylmalonate-semialdehydedehydrogenase [acylating], mitochondrial is a mitochondrial methylmalonatesemialdehyde dehydrogenase. ALDH6A1 participates in the valine and pyrimidinecatabolic pathways. ALDH6A1catalyzes the irreversible

Caution: Product has not been fully validated for medical applications. For research use only.

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oxidative decarboxylation of malonate, propionyl-CoA and methylmalonate semialdehydes to acetyl. ALDH6A1 deficiency is distinguished by high levels of beta-alanine, 3-hydroxypropionic acid, and the two isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

ALDH6A1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 525 amino acids (34-535 a.a) and having a molecular mass of 56.8kDa. ALDH6A1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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