9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-6660: ALDH6A1 Human

Alternative Name :	MMSADHA, MMSDH , Aldehyde Dehydrogenase 6 Family, Member A1, Methylmalonate-Semialdehyde Dehydrogenase [Acylating], Mitochondrial, Mitochondrial Acylating Methylmalonate-Semialdehyde Dehydrogenase, Malonate-Semialdehyde Dehydrogenase [Acylating], Aldehyde Dehydrogenase Family 6 Member A1, Malonate-Semialdehyde Dehydrogenase, EC 1.2.1.18, EC 1.2.1.27.

Description

Source: Escherichia Coli.
Sterile Filtered colorless solution.
ALDH6A1 or Methylmalonate-semialdehyde dehydrogenase [acylating], mitochondrial is a mitochondrial methylmalonate semialdehyde dehydrogenase. ALDH6A1 participates in the valine and pyrimidine catabolic pathways. ALDH6A1 catalyzes the irreversible 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.
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.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 85.0% as determined by SDS-PAGE.
Content :	ALDH6A1 protein solution (0.25mg/ml) containing Phosphate buffered saline (pH7.4), 10% glycerol and 1mM DTT.
Storage condition :	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.
Amino Acid :	MGSSHHHHHH SSGLVPRGSH MGSSSSVPTV KLFIGGKFVE SKSDKWIDIH NPATNEVIGR VPQATKAEMD AAIASCKRAF PAWADTSVLS RQQVLLRYQQ LIKENLKEIA KLITLEQGKT LADAEGDVFR GLQVVEHACS VTSLMMGETM PSITKDMDLY SYRLPLGVCA GIAPFNFPAM IPLWMFPMAM VCGNTFLMKP SERVPGATML LAKLLQDSGA PDGTLNIIHG QHEAVNFICD HPDIKAISFV GSNKAGEYIF ERGSRHGKRV QANMGAKNHG VVMPDANKEN TLNQLVGAAF GAAGQRCMAL STAVLVGEAK KWLPELVEHA KNLRVNAGDQ PGADLGPLIT PQAKERVCNL IDSGTKEGAS ILLDGRKIKV KGYENGNFVG PTIISNVKPN MTCYKEEIFG PVLVVLETET LDEAIQIVNN NPYGNGTAIF TTNGATARKY AHLVDVGQVG VNVPIPVPLP MFSFTGSRSS FRGDTNFYGK QGIQFYTQLK TITSQWKEED ATLSSPAVVM PTMGR.

For Research Use Only. Not for use in diagnostic/therapeutics procedures.