

# **Product datasheet for AR51907PU-S**

## OriGene Technologies, Inc.

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#### ALDH6A1 / MMSDH (34-535, His-tag) Human Protein

**Product data:** 

**Product Type:** Recombinant Proteins

**Description:** ALDH6A1 / MMSDH (34-535, His-tag) human recombinant protein, 20 μg

Species: Human
Expression Host: E. coli

**Expression cDNA Clone** 

or AA Sequence:

MGSSHHHHHH SSGLVPRGSH MGSSSSVPTV KLFIGGKFVE SKSDKWIDIH NPATNEVIGR VPQATKAEMD AAIASCKRAF PAWADTSVLS RQQVLLRYQQ LIKENLKEIA KLITLEQGKT LADAEGDVFR GLQVVEHACS VTSLMMGETM PSITKDMDLY SYRLPLGVCA GIAPFNFPAM IPLWMFPMAM VCGNTFLMKP SERVPGATML LAKLLQDSGA PDGTLNIIHG QHEAVNFICD

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

Tag: His-tag

Predicted MW: 56.8 kDa

Concentration: lot specific

Purity: >85% by SDS - PAGE

**Buffer:** Presentation State: Purified

State: Liquid purified protein

Buffer System: Liquid, In Phosphate buffered saline (pH 7.4) containing 10% glycerol, 1 mM

DTT

**Preparation:** Liquid purified protein

**Protein Description:** Recombinant human ALDH6A1, fused to His-tag at N-terminus, was expressed in E.coli and

purified by using conventional chromatography techniques.

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

**Stability:** Shelf life: one year from despatch.

**RefSeg:** NP 001265522

**Locus ID:** 4329



## ALDH6A1 / MMSDH (34-535, His-tag) Human Protein - AR51907PU-S

UniProt ID: Q02252

Cytogenetics: 14q24.3

Synonyms: MMSADHA; MMSDH

**Summary:** This gene encodes a member of the aldehyde dehydrogenase protein family. The encoded

protein is a mitochondrial methylmalonate semialdehyde dehydrogenase that plays a role in the valine and pyrimidine catabolic pathways. This protein catalyzes the irreversible oxidative decarboxylation of malonate and methylmalonate semialdehydes to acetyl- and propionyl-CoA. Methylmalonate semialdehyde dehydrogenase deficiency is characterized by elevated beta-alanine, 3-hydroxypropionic acid, and both isomers of 3-amino and 3-hydroxyisobutyric acids in urine organic acids. Alternate splicing results in multiple transcript variants. [provided

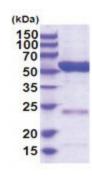
by RefSeq, Jun 2013]

**Protein Families:** Druggable Genome, Transmembrane

Protein Pathways: Inositol phosphate metabolism, Metabolic pathways, Propanoate metabolism, Valine, leucine

and isoleucine degradation

# **Product images:**



15% SDS-PAGE (3ug)