

**ALDH5A1, 48-535aa, Human, His tag, E.coli**

**Cat.NO.: TP01126**

3th Edition

**Synonyms:**Succinate-semialdehyde dehydrogenase, mitochondrial; SSADH; SSDH.

**Description:**ALDH5A1 belongs to the aldehyde dehydrogenase family of proteins. This protein functions as a mediate the NADP+-dependent oxidation of aldehydes into acids and plays an important role in the detoxification of alcohol-derived acetaldehyde, as well as in lipid peroxidation and in the metabolism of corticosteroids, biogenic amines and neurotransmitters.

**Form:**Liquid. In 20mM Tris-HCl buffer(pH 8.0) containing 10% glycerol 1mM DTT, 0.1M NaCl, 1mM EDTA.

**Molecular Weight:**54.6 kDa (509aa), confirmed by MALDI-TOF

**Sequences:**

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MGSSHHHHHSSGLVPRGSHMAGRLAGLSAALLRTDSFVGGRWLPAAATFPVQDPASGAALGMVADCGVREAR  
AAVRAAYEAFCRWREVS AKERSLLRKWYNLMIQNKDDLARIITAESGKPLKEAHGEILYSAFFLEWFSEEARRVYG  
DIIHTPAKDRRALVLKQPIGVA AVITPWNFPSAMITRKVGAALAAGCTVVVKPAEDTPFSALALAE LASQAGIPSGVY  
NVIPCSRKNAKEVG EAICTDPLVSKISFTGSTTTG KILLHHAANSVKRVSMELGGLAPFIVFDSANVDQAVAGAMASK  
FRNTGQTCVCSNQFLVQRGIHDAFVKAF AEAMKKNLRVGN GFEEGTTQG PLINEKAVEKVEKQVND AVSKGATVV  
TGGKRHQLGKNFF EPTLLCNVTQDMLCTHEETFG PLAPVIKFDTEEEAIAIANAADVGLAGYFY SQDPAQIWRVAEQ  
LEVGMVGVNEGLISSVECPFGGVKQSGLGREGSKYGIDEYLELKYVCYGG L
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**Purity:**> 95% by HPLC

**Concentration:**0.5 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**Storage:**Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.