

Product information



ALDH5A1, 48-535 aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP0723

Full name: Succinate-semialdehyde dehydrogenase, mitochondrial

NCBI Accession No.: NP_001071

Synonyms: SSADH, SSDH.

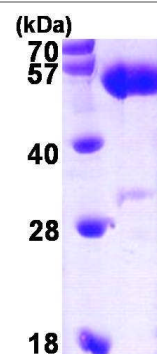
Description: ALDH5A1 belongs to the aldehyde dehydrogenase family of proteins. This protein functions as a mediate the NADP+-dependent oxidation of aldehydes into acids and plays an important role in the detoxification of alcohol-derived acetaldehyde, as well as in lipid peroxidation and in the metabolism of corticosteroids, biogenic amines and neurotransmitters. ALDH5A1 is expressed in a variety of tissues, including liver, heart, lung, brain, kidney and placenta. Recombinant human ALDH5A1 protein, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography techniques.

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

Purity: > 90 % by SDS – PAGE

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



15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MAGRLAGLSA ALLRTDSFVG GRWLPAAATF PVQDPASGAA LGMVADCGVR EARAAVRAAY EAFCRWREVS
AKERSLLLRK WYNLMIQNKD DLARIITAES GKPLKEAHGE ILYSAFFLEW FSEEARRVYG DI IHTPAKDR RALVLKQPIG VAAVITPWNF
PSAMI TRKVG AALAAGCTVV VKPAEDTPFS ALALAEASQ AGIPSGVYNV IPCSRKNAKE VGEAICTDPL VSKISFTGST TTGKILLHHA
ANSVKRVSMELGGLAPFIVF DSANVDQAVA GAMASKFRNT GQTCVCSNQF LVQRGIHDAF VKAFAEAMKK NLRVGNGFEE GTTQGPLINE
KAVEKVEKQV NDAVSKGATV VTGGKRHQLG KNFFEPTLLC NVTQDMLCTH EETFGPLAPV IKFDTEEEAI AIANAADVGL AGYFYSQDPA
QIWRVAEQLE VGMVGVNEGL ISSVECPFGG VKQSGLGREG SKYGI DEYLE LKYVCYGG

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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General references:

Thomasson HR., *et al.* (1991) *Am J Hum Genet.* 48(4):677-81.

Akaboshi S., *et al.* (2003) *Hum Mutat.* 22(6):442-50.

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.

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