

Recombinant human ADH1A protein

Catalog Number: ATGP1432

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-375aa

UniProt No.

P07327

NCBI Accession No.

NP_000658.1

Alternative Names

Alcohol dehydrogenase 1A, ADH1

PRODUCT SPECIFICATION

Molecular Weight

42 kDa (395aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 1mM DTT, 10% glycerol, 0.1M NaCl

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Alcohol dehydrogenase 1A, also known as ADH1A, belongs to the alcohol dehydrogenase family. ADH1 is a monomeric and predominant in fetal and infant livers, becoming less active in gestation and only weakly active during adulthood. ADH1A plays a major role in ethanol metabolism. With the coenzyme NAD, ADH catalyzes the reversible conversion of organic alcohols to ketones or aldehydes. The physiologic function for ADH1A in the liver is the removal of ethanol formed by microorganisms in the intestinal tract. Recombinant human ADH1A protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using

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conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MSTAGKVIKK KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAVGICGTD
DHVVS GMTMT PLPVILGHEA AGIVESVGEV VTTVKPGDKV IPLAIPQCGK CRICKNPESN YCLKNDVSNP QGTLQDGTSR
FTCRRKPIHH FLGISTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVNVAKV TPGSTCAVFG LGGVGLSAIM
GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEMTD GGVDVSFEVI GRLDTMMASL LCCHEACGTS
VIVGVPPDSQ NLSMNPMLLL TGRTWKGAIL GGFKSKECVP KLVADFMKK FSLDALITHV LPFEKINEGF DLLHSGKSIR
TILMF

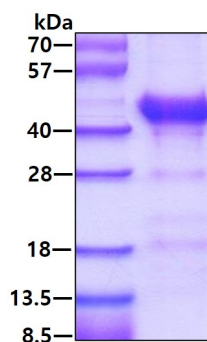
General References

Jelski W., et al. (2007) Dig Dis Sci. 52:1513-1516.

Smith M., et al. (1973) Ann Hum Genet. 36:401-414.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.