

# Recombinant human ADH1A protein

Catalog Number: ATGP3480

## PRODUCT INFORMATION

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### Expression system

Baculovirus

### Domain

1-375aa

### UniProt No.

P07327

### NCBI Accession No.

NP\_000658

### Alternative Names

Alcohol dehydrogenase 1A, ADH1A, ADH1

## PRODUCT SPECIFICATION

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### Molecular Weight

40.6 kDa (381aa)

### Concentration

0.5mg/ml (determined by absorbance at 280nm)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### 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

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### Description

ADH1A, also known as alcohol dehydrogenase 1A, belongs to the alcohol dehydrogenase family. It plays a key role in hepatic alcohol catabolism. Its activity may be the cause of disorders in metabolic pathways that use these isoenzymes and could increase the concentration of acetaldehyde, which is cancerogenic substance. It is positively correlated with those of CDR1, CDR2 and FLU1. Recombinant human ADH1A, fused to His-tag at C-

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terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

## Amino acid Sequence

MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAVGICGTD DHVVS GMTMVT PLPVILGHEA AGIVESV GEG  
VTTVKPGDKV IPLAIPQCGK CRICKNPESN YCLKNDVSNP QGTLQDGTSR FTCRRKPIHH FLGISTFSQY TVVDENAVAK  
IDAASPLEKV CLIGCGFSTG YGSAVNVAKV TPGSTCAVFG LGGVGLS AIM GCKAAGAARI IAVDINKDKF AKAKELGATE  
CINPQDYKKP IQEVLKEMTD GGVD FSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ NLSMNPMLLL TGRTWKGAIL  
GGFKSKECVP KLVADFM AKK FSLDALITHV LPFEKINEGF DLLHSGKSIR TILMFHHHHH H

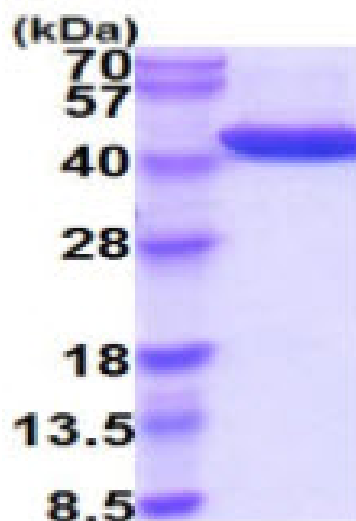
## General References

Orywal K., et al. (2010) J Clin Lab Anal. 24:334-339.

Yasunami M., et al. (1990) Genomics. 7:152-158.

## DATA

### SDS-PAGE



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

15% SDS-PAGE (3ug)