Recombinant human ADH1C protein

Catalog Number: ATGP3481

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
1-375aa

UniProt No.
P00326

NCBI Accession No.
NP_000660

Alternative Names
Alcohol dehydrogenase 1C, ADH1C, ADH3

PRODUCT SPECIFICATION

Molecular Weight
40.6 kDa (381aa)

Concentration
1mg/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

Description
ADH1C, also known as Alcohol dehydrogenase 1C, belongs to the zinc-containing alcohol dehydrogenase family. Members of this enzyme family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. Class I alcohol dehydrogenase, consisting of several homo- and heterodimers of alpha, beta, and gamma subunits, exhibits high activity for ethanol oxidation and

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plays a major role in ethanol catabolism. It is a monomorphic and predominant in fetal and infant livers, becoming less active in gestation and only weakly active during adulthood. Recombinant human ADH1C protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

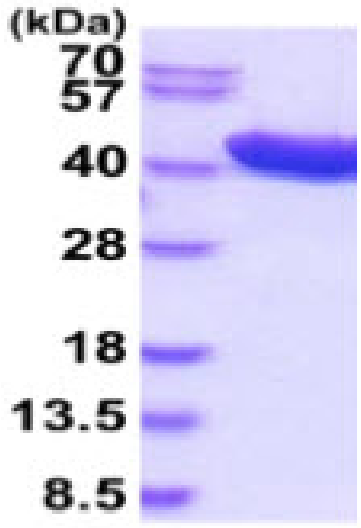
MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAAGICRSD EHVVSGNLVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLFTPQCGK CRICKNPESN YCLKNDLGNP RGTLQDGTRR FTCSGKPIHH FVGVSTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVKVAKV TPGSTCAVFG LGGVGLSVVM GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEMTD GGVDFSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ NLSINPMLLL TGRTWKGAIF GGFKSKESVP KLVADFMAKK FSLDALITNI LPFEKINEGF DLLRSGKSIR TVLTFHHHHH H

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



15% SDS-PAGE (3ug)

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