

Recombinant human ADH5 protein

Catalog Number: ATGP1471

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-374aa

UniProt No.

P11766

NCBI Accession No.

NP_000662

Alternative Names

Alcohol dehydrogenase class-3, ADHX, FDH

PRODUCT SPECIFICATION

Molecular Weight

42.3 kDa (398aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 20% glycerol 0.1M NaCl, 1mM DTT

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

ADH5 is a member of the alcohol dehydrogenase family. Members of this family metabolize a wide variety of substrates, including ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. It has virtually no activity for ethanol oxidation, but exhibits high activity for oxidation of long-chain primary alcohols and for oxidation of S-hydroxymethyl-glutathione, a spontaneous adduct between formaldehyde and glutathione. This enzyme is an important component of cellular metabolism for the elimination of formaldehyde, a potent irritant and sensitizing agent that causes lacrymation, rhinitis, pharyngitis, and contact dermatitis.

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Recombinant human ADH5 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MANEVI KCKAAVAWEA GKPLSIEEIE VAPPKAHEVR IKIATAVCH TDAYTLGAD
PEGCFPVILG HEGAGIVESV GEGVTCLKAG DTVIPLYIPQ CGECKFCLNP KTNLCQKIRV TQKGLMPDG TSRFTCKGKT
ILHYMGTSTF SEYTVVADIS VAKIDPLAPL DKVCLLGCGI STGYGAAVNT AKLEPGSVCA VFGLGGVGLA VIMGCKVAGA
SRIIGVDINK DKFARAKEFG ATECINPQDF SKPIQEVLE MTDGGVDYSF ECIGNVKVMR AALEACHKGW GVSVVGVAA
SGEEIATRPF QLVTGRTWKG TAFGGWKSVE SVPKLVSEYM SKKIKVDEFV THNLSFDEIN KAFELMHSGK SIRTVVKI

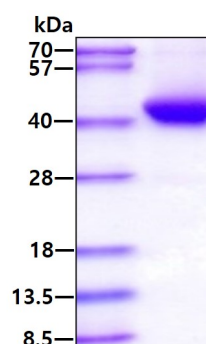
General References

Zhang,X. et al. (2010) Carcinogenesis 31 (12), 2118-2123

Shimada,M. et al. (2010) Hum. Genet. 128 (4), 433-441

DATA

SDS-PAGE



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