

# Product information

## ADH1A, 1-375aa

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

Cat. No. IBATGP01432

**Full name:** Alcohol dehydrogenase 1A

**NCBI Accession No.:** NP\_000658

**Synonyms:** ADH1

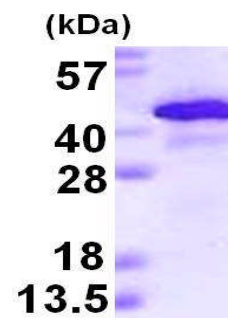
**Description:** Alcohol dehydrogenase 1A, also known as ADH1A, belongs to the alcohol dehydrogenase family. ADH1 is a monomorphous and predominant in fetal and infant livers, becoming less active in gestation and only weakly active during adulthood. ADH1A plays a major role in ethanol metabolism. With 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 conventional chromatography techniques.

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

**Molecular Weight:** 42 kDa (395aa) confirmed by MALDI-TOF

**Purity:** > 90% by SDS - PAGE

**Concentration:** 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3ug)

### Sequences of amino acids:

MGSSHHHHHH SSGLVPRGSH MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAVGICGTD DHVVS GMTMT PLPVILGHEA  
AGIVESVGEG VTTVKPGDKV IPLAIPQCGK CRICKNPESN YCLKNDVSNP QGTLQDGTSR FTCRRKPIHH FLGISTFSQY TVVDENAVAK  
IDAASPLEKV CLIGCGFSTG YGSAVNVAKV TPGSTCAVFG LGGVGLSAIM GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP  
IQEVLKEMTD GGVD FSFEVI GR LDTMMASL LCCHEACGTS VIVGVPPDSQ NLSMNPMLLL TGRTWKGA IL GGFKSKECVP KLVADFMAKK  
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.

**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.

**For research use only. This product is not intended or approved for human, diagnostics or veterinary use.**