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## Product Data Sheet

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Product Name: ADH1C Human  
 Cat. No.: GP21359  
 Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alcohol dehydrogenase 1C (class I) gamma polypeptide; Alcohol dehydrogenase subunit gamma; alcohol dehydrogenase 3 (class I) gamma polypeptide; ADH gamma subunit; aldehyde reductase; ADH3; EC 1.1.1.1; EC 1.1.1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMSTAGK VIKCKAAVLW ELKKPFSIEE VEVAPPKAHE VRIKMVAAGI CRSDEHVVSGL NLVTPLPVIL GHEAAGIVES VGEGVTTVKP GDKVIPLFTP QCGKCRICKN PESNYCLKND LGNPRGTLQD GTRRFTCSGK PIHHFVGVST FSQYTVVDEN AVAKIDAASP LEKVCLIGCG FSTGYGSAVK VAKVTPGSTC AVFGLGGVGL SVVMGCKAAG AARIIVDIN KDKFAKAKEL GATECINPQD YKKPIQEVLK EMTDGGVDFS FEVIGRLDTM MASLLCCHEA CGTSVIVGVP PDSQNLINP MLLLTGRTWK GAIFGGFKSK ESVPKLVADF MAKKFSLDAL ITNILPFEKI NEGFDLLRSG KSIRTVLTF.		
Formulation	The ADH1C solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.2M NaCl, 2mM DTT and 10% glycerol.		

### Introduction

ADH1C is a member of the zinc-containing alcohol dehydrogenase family which metabolizes a large assortment of substrates, such as ethanol, retinol, other aliphatic alcohols, hydroxysteroids, and lipid peroxidation products. ADH1 is a monomeric and a key factor in fetal and infant livers, becoming less active in gestation and only weakly active during adulthood.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1%

**Caution: Product has not been fully validated for medical applications. For research use only.**

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HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

ADH1C Human Recombinant produced in E. coli is a single polypeptide chain containing 399 amino acids (1-375) and having a molecular mass of 42.4 kDa. ADH1C is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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