
Product Data Sheet

Product Name: ADH1A Human

Cat. No.: GP21357

Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alcohol dehydrogenase 1A; Alcohol dehydrogenase subunit alpha; ADH1A; ADH1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSTAGKVIKC KAAVLWELKK PFSIEEVEVA PPKAHEVRIK MVAVGICGTD DHVVS GMTMVT PLPVILGHEA AGIVESVGEG VTTVKPGDKV IPLAIPQCGK CRICKNPESN YCLKNDVSNP QGTLQDGTSR FTCRRKPIHH FLGISTFSQY TVVDENAVAK IDAASPLEKV CLIGCGFSTG YGSAVNVAKV TPGSTCAVFG LGGVGLSAIM GCKAAGAARI IAVDINKDKF AKAKELGATE CINPQDYKKP IQEVLKEMTD GGVD FSFEVI GRLDTMMASL LCCHEACGTS VIVGVPPDSQ NLSMNPMLLL TGRTWK GAIL GGFKSKECVP KLVADFM AKK FSLDALITHV LPFEKINEGF DLLHSGKSIR TILMF.		
Formulation	The ADH1A solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 10% glycerol and 0.1M NaCl.		

Introduction

Alcohol dehydrogenase 1A (ADH1A) is a member of the alcohol dehydrogenase family. ADH1A has a key role in ethanol metabolism. ADH1A along with coenzyme NAD catalyzes the reversible conversion of organic alcohols to ketones or aldehydes. The physiologic function of ADH1A in the liver is the elimination of ethanol formed by microorganisms in the intestinal tract. ADH1A is monomorphic and predominant in fetal and infant livers, growing to be 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

ADH1A Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 395 amino acids (1-375) and having a molecular mass of 42kDa. ADH1A is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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