

## Recombinant Human ADH7, His-tagged

**Cat. No.** ADH7-20H    **Lot. No.** (See product label)

### SPECIFICATION

**Product Overview**      Recombinant Human Alcohol Dehydrogenase Class 4 Mu/Sigma Chain/ADH7 is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Met1-Phe386) of Human ADH7 fused with a polyhistidine tag at the C-terminus.

**Species**      Human

**Source**      HEK293

**ProteinLength**      1-386 a.a.

**AA Sequence**

MFAEIQIQDKDRMGTAGKVIKCKAAVLWEQKQPFSEIEIEVAPPKTKEVRIKILATGIC  
 RTDDHV IKGTMVSKFPVIVGHEATGIVESIGEGVTTVKPGDKVIPLFLPQCRECNACR  
 NPDGNLCIRSDIT GRGVLADGTTFRFTCKGKPVHHFMNTSTFTEYTVVDESSVAKIDD  
 AAPPEKVCLIGCGFSTGYGAA VKTGKVKPGSTCVVFLGGVGLSVIMGCKSAGASR  
 IIGIDLNKDKFEKAMAVGATECISPKDSTK PISEVLSEMTGNNVGYTFEVIHLETMID  
 ALASCHMNYGTSVVVGVPVPSAKMLTYDPMLLFTGRT WKGCVFGGLKSRDDVPKLV  
 TEFLAKKFDLDQLITHVLPFKKISEGFELLNSGQSIRTVLTFVDHH HHHH

**Endotoxin**      Less than 0.1 ng/μg (1 IEU/μg).

**Purity**      Greater than 95% as determined by SEC-HPLC and reducing SDS-PAGE.

### GENE INFORMATION

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<b>Gene Name</b>	ADH7 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide [ Homo sapiens ]
<b>Official Symbol</b>	ADH7
<b>Synonyms</b>	ADH7; alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide; alcohol dehydrogenase class 4 mu/sigma chain; ADH 4; retinol dehydrogenase; alcohol dehydrogenase-7; alcohol dehydrogenase VII; gastric alcohol dehydrogenase; class IV sigma-1 alcohol dehydrogenase; class IV sigmasigma alcohol dehydrogenase; alcohol dehydrogenase class IV mu/sigma chain; ADH4;
<b>Gene ID</b>	131
<b>mRNA Refseq</b>	NM_000673
<b>Protein Refseq</b>	NP_000664
<b>MIM</b>	600086
<b>UniProt ID</b>	P40394
<b>Chromosome Location</b>	4q23-q24
<b>Pathway</b>	Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Ethanol oxidation, organism-specific biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem;
<b>Function</b>	alcohol dehydrogenase (NAD) activity; alcohol dehydrogenase activity, zinc-dependent; aldehyde oxidase activity; ethanol binding; metal ion binding; nucleotide

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binding; oxidoreductase activity; receptor antagonist activity; retinol binding; retinol dehydrogenase activity; zinc ion binding;

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