

## Recombinant Human ADH7, His-tagged

Cat. No. ADH7-3254H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Alcohol dehydrogenase class 4 mu/sigma chain (ADH7)
<b>Species</b>	Human
<b>Source</b>	E.Coli/Yeast
<b>ProteinLength</b>	386
<b>Description</b>	<p>This gene encodes class IV alcohol dehydrogenase 7 mu or sigma subunit, which 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. The enzyme encoded by this gene is inefficient in ethanol oxidation, but is the most active as a retinol dehydrogenase; thus it may participate in the synthesis of retinoic acid, a hormone important for cellular differentiation. The expression of this gene is much more abundant in stomach than liver, thus differing from the other known gene family members. Alternative splicing results in multiple transcript variants.</p>
<b>Form</b>	This item requires custom production and lead time is between 5-9 weeks. We can custom produce according to your specifications.
<b>Purity</b>	>90%
<b>Notes</b>	Small volumes of ADH7 recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly

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centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's cap. Certain products may require to ship with dry ice.

**Storage** Store at -20 degree C. For extended storage, store at -20 or -80 degree C.

**Storage Buffer** PBS pH 7.4, 50% glycerol

**Warning** This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## GENE INFORMATION

**Gene Name** [ADH7 alcohol dehydrogenase 7 \(class IV\), mu or sigma polypeptide \[ Homo sapiens \]](#)

**Official Symbol** ADH7

**Synonyms** 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;

**Gene ID** [131](#)

**mRNA Refseq** [NM\\_000673](#)

**Protein Refseq** [NP\\_000664](#)

**MIM** [600086](#)

**UniProt ID** [P40394](#)

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<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, organis
<b>Function</b>	alcohol dehydrogenase (NAD) activity; alcohol dehydrogenase activity, zinc-dependent; aldehyde oxidase activity; ethanol binding; metal ion binding; nucleotide binding; oxidoreductase activity; receptor antagonist activity; retinol binding; retinol dehydrogenase activity; zinc ion binding;

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