

Recombinant Full Length Human ADH7 Protein, GST-tagged

Cat. No. ADH7-943HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ADH7 full-length ORF (NP_000664.2, 1 a.a. - 386 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	386 amino acids
Description	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. [provided by RefSeq, Oct 2009]
Molecular Mass	67.9 kDa
AA Sequence	MFAEIQIQDK DRMGTAGKVI KCKAAVLWEQ KQPFSIEEIE VAPPKTKEVR IKILATGICR TDDHVIKGTM VSKFPVIVGH EATGIVESIG EGVTTVKPGD KVIPLFLPQC RECNACRNPD GNLCIRSDIT GRGVLAGDGT RFTCKGKPVH HFMNTSTFTE YTVVDESSVA KIDDAAPPEK VCLIGCGFST GYGA AVKTKGK

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VKPGSTCVVF GLGGVGLSVI MGCKSAGASR IIGIDLNKDK FEKAMAVGAT
 ECISPKDSTK PISEVLSEMT GNNVGYTFEV IGHLETMIDA LASCHMNYGT
 SVVVGVPSPA KMLTYDPMML FTGRTWKGCV FGGLKSRDDV PKLVTEFLAK
 KFDLDQLITH VLPFKKISEG FELLNSGQSI RTVLTF

Applications

Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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

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MIM	600086
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UniProt ID	P40394
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