Recombinant Full Length Human ADH7 Protein, C-Myc/DDK-tagged

Cat. No. ADH7-22HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human ADH7 Protein, fused to Myc/DDK-tag at C-terminus, was expressed in HEK293T.
Species	Human
Source	HEK293
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.
Form	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol.
Molecular Mass	41.3 kDa
AA Sequence	MFAEIQIQDKDRMGTAGKVIKCKAAVLWEQKQPFSIEEIEVAPPKTKEVRIKILATGIC RTDDHVIKGTM VSKFPVIVGHEATGIVESIGEGVTTVKPGDKVIPLFLPQCRECNACR NPDGNLCIRSDITGRGVLADGTT RFTCKGKPVHHFMNTSTFTEYTVVDESSVAKIDD

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	AAPPEKVCLIGCGFSTGYGAAVKTGKVKPGSTCVVF GLGGVGLSVIMGCKSAGASR IIGIDLNKDKFEKAMAVGATECISPKDSTKPISEVLSEMTGNNVGYTFEV IGHLETMID ALASCHMNYGTSVVVGVPPSAKMLTYDPMLLFTGRTWKGCVFGGLKSRDDVPKLV TEFLAK KFDLDQLITHVLPFKKISEGFELLNSGQSIRTVLTF TRTRPLEQKLISEEDLA ANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Notes	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Drug metabolism - cytochrome P450, Fatty acid metabolism, Glycolysis / Gluconeogenesis, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Retinol metabolism, Tyrosine metabolism
Full Length	Full L.

GENE INFORMATION

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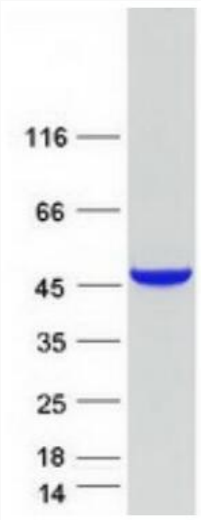
Gene Name	ADH7 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide [Homo sapiens (human)]
Official Symbol	ADH7
Synonyms	ADH4
Gene ID	131
mRNA Refseq	NM_000673.7
Protein Refseq	NP_000664.3
MIM	600086
UniProt ID	P40394
SDS-PAGE	 Coomassie blue staining of purified ADH7 protein.

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