Recombinant Human AKR1C2

Cat. No. AKR1C2-27159TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 224-323 of Human AKR1C2, with N terminal proprietary tag; predicted MW: 36.63 kDa inclusive of tag. AAH63574.
Species	Human
Source	Wheat Germ
ProteinLength	100 amino acids
Description	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14.
Molecular Weight	36.630kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification
Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl

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Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EEPWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQN VQVFEFQLTSEEMKAIDGLNRNVRYLTLDIFAGPPNYPFSDEY
Sequence Similarities	Belongs to the aldo/keto reductase family.

GENE INFORMATION

Gene Name	AKR1C2 aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III) [Homo sapiens]
Official Symbol	AKR1C2
Synonyms	AKR1C2; aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III); DDH2; aldo-keto reductase family 1 member C2; BABP; DD; DD2; HAKRD; MCDR2;
Gene ID	1646
mRNA Refseq	NM_001135241
Protein Refseq	NP_001128713
MIM	600450
Uniprot ID	P52895

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Chromosome Location	10p15-p14
Pathway	Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem; Steroid hormone biosynthesis, organism-specific biosystem; Steroid hormone biosynthesis, conserved biosystem;
Function	androsterone dehydrogenase (A-specific) activity; bile acid binding; carboxylic acid binding; oxidoreductase activity; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase activity;

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