

Recombinant Human AKR1C2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AKR1C2-898H **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | AKR1C2 MS Standard C13 and N15-labeled recombinant protein (NP_995317) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells. |
| Species | Human |
| Source | HEK293 |
| 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. Three transcript variants encoding two different isoforms have been found for this gene. |
| Molecular Mass | 36.7 kDa |
| AA Sequence | MDSKYQCVKLNLDGHFMPVLGFGTYAPAEVPKSKALEAVKLAIEAGFHHIDSAHVYN NEEQVGLAIRSKIADGSVKREDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLY LIHFVSVKPGEEVIPKDENGKILFDTVDLCATWEAMEKCKDAGLAKSIGVSNFNHRL LEMILNKPGLKYKPVCNQVECHPYFNQRKLLDFCKSKDIVLVAYSALGSHREEPWVD |

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PNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEF
QLTSEEMKAIDGLNRNVRYLTLDFAGPPNYPFSDIYTRTRPLEQKLISEEDLAANDIL
DYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name AKR1C2 aldo-keto reductase family 1 member C2 [Homo sapiens (human)]

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; DD-2; DD/BABP; 3-alpha-HSD3; pseudo-chlordecone reductase; type II dihydrodiol dehydrogenase; chlordecone reductase homolog HAKRD; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; HBAB; SRXY8; AKR1C-pseudo; FLJ53800;

Gene ID 1646

mRNA Refseq NM_205845

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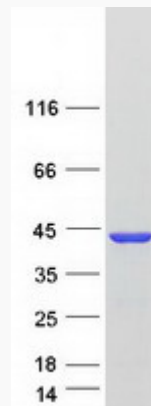
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Protein Refseq NP_995317

MIM 600450

UniProt ID P52895

SDS-PAGE



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