

Recombinant Full Length Human AKR1C2 Protein, GST-tagged

Cat. No. AKR1C2-1367HF **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|--|
| Product Overview | Human AKR1C2 full-length ORF (AAH07024, 1 a.a. - 323 a.a.) recombinant protein with GST-tag at N-terminal. |
| Species | Human |
| Source | In Vitro Cell Free System |
| ProteinLength | 323 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. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Dec 2011] |
| Molecular Mass | 61.16 kDa |
| AA Sequence | MDSKYQCVKL NDGHFMPVLG FGTYAPAEVP KSKALEAVKL AIEAGFHHID SAHVYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLWSNSH RPELVRPALE RSLKNLQLDY VDLYLIHFPV SVKPGEEVIP KDENGKILFD TVDLCATWEA MEKCKDAGLA KSIGVSNFNH RLLEMILNKP GLKYKPCVNCQ VECHPYFNQR |

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KLLDFCKSKD IVLVAYSALG SHREEPWVDP NSPVLLEDPV LCALAKKHKR
 TPALIALRYQ LQRGVVVLAK SYNEQRIRQN VQVFEFQLTS EEMKAIDGLN
 RNVRYLTLDI FAGPPNYPFS DEY

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

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; 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_001135241

Protein Refseq

NP_001128713

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| MIM | 600450 |
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| UniProt ID | P52895 |
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