

Recombinant Full Length Human AKR1C1 Protein, GST-tagged

Cat. No. AKR1C1-1366HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AKR1C1 full-length ORF (NP_001344.2, 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 by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq, Jul 2008]
Molecular Mass	63.2 kDa
AA Sequence	MDSKYQCVKL NDGHFMPVLG FGTYAPAEVP KSKALEATKL AIEAGFRHID SAHLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLWCNSH RPELVRPALE RSLKNLQLDY VDLYLIHFPV SVKPGEEVIP KDENGKILFD TVDLCATWEA VEKCKDAGLA KSIGVSNFNR RQLEMILNKP GLKYKPCVNQ VECHPYFNQR KLLDFCKSKD IVLVAYSALG SHREEPWVDP NSPVLLEDPV LCALAKKHKR

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	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	AKR1C1 aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase) [Homo sapiens]
Official Symbol	AKR1C1
Synonyms	AKR1C1; aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase); DDH1; aldo-keto reductase family 1 member C1; DD1; DDH; HAKRC; MBAB; aldo-keto reductase C; indanol dehydrogenase; dihydrodiol dehydrogenase 1; dihydrodiol dehydrogenase 1/2; hepatic dihydrodiol dehydrogenase; chlordecone reductase homolog HAKRC; 20 alpha-hydroxysteroid dehydrogenase; 20-alpha-hydroxysteroid dehydrogenase; dihydrodiol dehydrogenase isoform DD1; type II 3-alpha-hydroxysteroid dehydrogenase; high-affinity hepatic bile acid-binding protein; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; C9; H-37; HBAB; DD1/DD2; 2-ALPHA-HSD; 20-ALPHA-HSD; MGC8954
Gene ID	1645
mRNA Refseq	NM_001353

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Protein Refseq	NP_001344
MIM	600449
UniProt ID	Q04828

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