Recombinant Human AKR1C2, MYC/DDK-tagged

Cat. No. AKR1C2-18H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AKR1C2, fused with C-terminal MYC/DDK, 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.
Form	25 mM Tris.HCl, pH 7.3, 100 Mm glycine, 10% glycerol.
Molecular Mass	36.6 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	AKR1C2 aldo-keto reductase family 1, member C2 [Homo sapiens]
Official Symbol	AKR1C2
Synonyms	DD; DD2; TDD; BABP; DDH2; HBAB; HAKRD; MCDR2; SRXY8; AKR1C-pseudo; aldo-keto reductase family 1 member C2; DD-2; DD/BABP; 3-alpha-HSD3; pseudo-chlordecone reductase; type II dihydrodiol dehydrogenase; chlordecone reductase homolog HAKRD; testicular 17,20-desmolase deficiency; trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III
Gene ID	1646
mRNA Refseq	NM_001354
Protein Refseq	NP_001345
MIM	600450
UniProt ID	P52895
Chromosome Location	10p15-p14
Pathway	Benzo(a)pyrene metabolism, organism-specific biosystem; Chemical carcinogenesis, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem
Function	alditol:NADP+ 1-oxidoreductase activity; bile acid binding; carboxylic acid binding

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