

## Product datasheet for **TP309081**

### AKR1C2 (NM\_205845) Human Recombinant Protein

#### Product data:

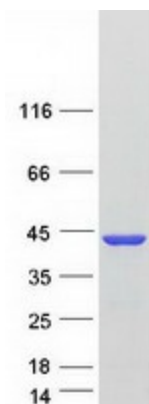
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein; 3-alpha hydroxysteroid dehydrogenase, type III) (AKR1C2), transcript variant 2, 20 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC209081 protein sequence Red=Cloning site Green=Tags(s)
	MDSKYQCVKLNLDGHFMPVLGFGTYAPAEPVPSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIA DGSVKREDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLYLIHFVSVKPGEEVIPKDENGKILFD TVDLWCATWEAMEKCKDAGLAKSIGVSNFNHRLLEMILNKPGLKYKPVNCQVECHPYFNQRKLLDFCKSKD IVLVAYSALGSHREEPWVDPNSPVLLEDVPLCALAKKHKRTPALIALRYQLQRGVWVLAQSYNEQRIRQN VQVFEFQLTSEEMKAIDGLNRNVRYLTLDFAGPPNYPFSDEY
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	36.6 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
<b>Note:</b>	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
<b>RefSeq:</b>	<a href="#">NP_995317</a>



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Locus ID:	1646
UniProt ID:	<a href="#">P52895</a>
RefSeq Size:	3521
Cytogenetics:	10p15.1
RefSeq ORF:	969
Synonyms:	AKR1C-pseudo; BABP; DD; DD-2; DD/BABP; DD2; DDH2; HAKRD; HBAB; MCDR2; SRXY8; TDD
Summary:	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]
Protein Families:	Druggable Genome
Protein Pathways:	Metabolism of xenobiotics by cytochrome P450

### Product images:



Coomassie blue staining of purified AKR1C2 protein (Cat# TP309081). The protein was produced from HEK293T cells transfected with AKR1C2 cDNA clone (Cat# [RC209081]) using MegaTran 2.0 (Cat# [TT210002]).