

## Product datasheet for **TP304731M**

### AKR1C4 (NM\_001818) Human Recombinant Protein

#### Product data:

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4) (AKR1C4), 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC204731 protein sequence Red=Cloning site Green=Tags(s)
	MDPKYQRVELNDGHFMPVLFPGTYAPPEVPRNRAVEVTKLAIEAGFRHIDSAYLYNNEEQVGLAIRSKIA DGSVKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFPALKPGETPLPKDENGKVID TVDLSATWEVMEKCKDAGLAKSIGVSNFNRYRQLEMILNKPGLKYKPVNCNQECPYLNQSKLLDFCKSKD IVLVAHSALGTQRHKLWVDPNSPVLLEDVLCALAKKHKRTPALIALRYQLQRGVVVLAQSYNEQRIREN IQVFEFQLTSEDMKVLDGLNRYRYVMDFLMDHPDYPFSDEY
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	36.9 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>	<u><a href="#">NP_001809</a></u>



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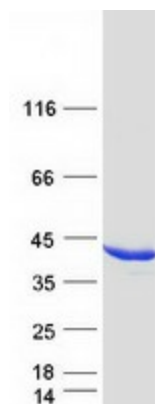
Locus ID:	1109
UniProt ID:	<a href="#">P17516</a>
RefSeq Size:	1192
Cytogenetics:	10p15.1
RefSeq ORF:	969
Synonyms:	3-alpha-HSD; C11; CDR; CHDR; DD-4; DD4; HAKRA

**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 by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the bioreduction of chlordecone, a toxic organochlorine pesticide, to chlordecone alcohol in liver. 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways, Metabolism of xenobiotics by cytochrome P450, Primary bile acid biosynthesis

### Product images:



Coomassie blue staining of purified AKR1C4 protein (Cat# [TP304731]). The protein was produced from HEK293T cells transfected with AKR1C4 cDNA clone (Cat# [RC204731]) using MegaTran 2.0 (Cat# [TT210002]).