

Product datasheet for **TP304731**

AKR1C4 (NM_001818) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4) (AKR1C4), 20 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC204731 protein sequence
Red=Cloning site **Green**=Tags(s)

MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTKLAIEAGFRHIDSAYLYNNEEQVGLAIRSKIA
DGSVKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFPMAKPGETPLPKDENGKVIFD
TVDLSATWEVMEKCKDAGLAKSIGVSNFNRYRQLEMILNKPGPKYKPCNQEHPYLNQSKLLDFCKSKD
IVLVAHSALGTQRHKLWVDPNSPVLLDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRREN
IQVFEFQLTSEDMKVLDGLNRNRYRVVMDFLMDHPDYPFSDEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 36.9 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

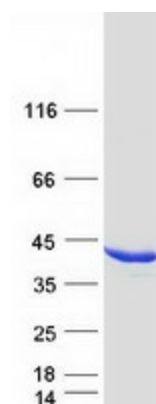
RefSeq: [NP_001809](#)



[View online »](#)

Locus ID:	1109
UniProt ID:	P17516
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]).