

Product datasheet for PH304731

AKR1C4 (NM_001818) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AKR1C4 MS Standard C13 and N15-labeled recombinant protein (NP_001809)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC204731
Predicted MW:	37.2 kDa
Protein Sequence:	>RC204731 protein sequence Red=Cloning site Green=Tags(s)

MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTKLAIEAGFRHIDSAYLYNNEEQVGLAIRSKIA
DGSVKREDIFYTSKLVCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFPALKPGETPLPKDENGKVIIFD
TVDLSATWEVMEKCKDAGLAKSIGVSNFNRYRQLEMILNKPLKYPVCNQVECHPYLNQSKLLDFCKSKD
IVLVAHSALGTQRHKLWVDPNSPVLLEDVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIREN
IQVFEFQLTSEDMKVLDGLNRNYRYVVMDFLMDHPDYPFSDEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	<u>NP_001809</u>
RefSeq Size:	1192
RefSeq ORF:	969
Synonyms:	3-alpha-HSD; C11; CDR; CHDR; DD-4; DD4; HAKRA
Locus ID:	1109



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UniProt ID: [P17516](#)

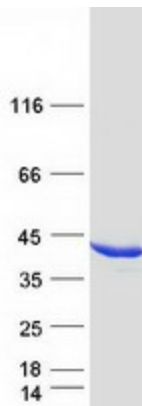
Cytogenetics: 10p15.1

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]).