

Recombinant Human AKR1C4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AKR1C4-1269H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AKR1C4 MS Standard C13 and N15-labeled recombinant protein (NP_001809) with a C-terminal MYC/DDK tag, 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 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.
Molecular Mass	37.2 kDa
AA Sequence	MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTKLAIEAGFRHIDSAYLYN NEEQVGLAIRSKIADGSVKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQLDYVDL YLLHFPMALKPGETPLPKDENGKVIFD TVDLSATWEVMEKCKDAGLAKSIGVSNFNY RQLEMILNKPGLKYKPCVNQVECHPYLNQSKLLDFCKSKDIVLVAHSALGTQRHKLW VDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRENIQVFE

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FQLTSEDMKVL DGLNRNYRYVVMDFLMDHPDY PFSDEYTRTRPLEQKLISEEDLAA
NDILDYKDDDDKV

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

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name AKR1C4 aldo-keto reductase family 1 member C4 [Homo sapiens (human)]

Official Symbol AKR1C4

Synonyms AKR1C4; aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4); CHDR; aldo-keto reductase family 1 member C4; 3 alpha HSD; C11; CDR; DD4; HAKRA; MGC22581; 3-alpha-HSD1; dihydrodiol dehydrogenase isozyme DD4; type I 3-alpha-hydroxysteroid dehydrogenase; DD-4; 3-alpha-HSD;

Gene ID 1109

mRNA Refseq NM_001818

Protein Refseq NP_001809

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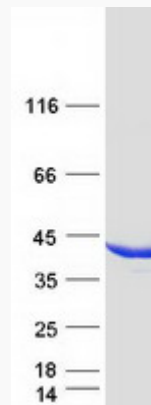
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MIM 600451

UniProt ID P17516

SDS-PAGE



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