

Recombinant Human AKR1C4 Protein, GST-tagged

Cat. No. AKR1C4-414H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human AKR1C4 full-length ORF (AAH20744, 1 a.a. - 323 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>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]</p>
Molecular Mass	61.27 kDa
AA Sequence	<pre>MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTKLAI EAGFRHIDSAYLYN NEEQVGLAIRSKIADG SVKREDIFYTSKLWCTFFQPQM VQPALESSLKKLQLDYVDL YLLHFP MALKPGETPLPKDENGKVIFD TVDLSATWEVMEKCKDAGLAKSIGVSNFNY RQLEMILNKPGLKYK PVCNQVECHPYLNQSKLLDFCKSKDIVLVAHSALGTQRHKLW VDPNSPVLLED PVL CALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRENIQVFE FQLTSEDMKVLDGLNRNYRYVVMDFLMDHPDYPFSDEY</pre>

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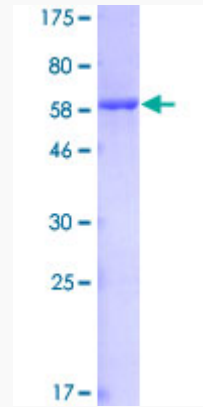
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
Storage	Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name	AKR1C4 aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4) [Homo sapiens]
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
MIM	600451

UniProt ID

P17516



12.5% SDS-PAGE Stained with Coomassie Blue.

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