

## ARG82858 Human AKR1C4 ELISA Kit

Package: 96 wells  
Store at: 4°C

### Component

Cat. No.	Component Name	Package	Temp
ARG82858-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82858-002	Standard	2 X 10 ng/vial	4°C
ARG82858-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82858-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82858-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82858-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82858-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82858-008	25X Wash buffer	20 ml	4°C
ARG82858-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82858-010	STOP solution	10 ml (Ready to use)	4°C
ARG82858-011	Plate sealer	4 strips	Room temperature

### Summary

Product Description	ARG82858 Human AKR1C4 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human AKR1C4 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	AKR1C4
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	10 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	15.6 - 1000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.6% Inter-Assay CV: 5.9%

Alternate Names	EC 1.1.1.357; CHDR; Aldo-keto reductase family 1 member C4; 3-alpha-HSD1; Chlordecone reductase; EC 1.1.1.225; DD-4; EC 1.1.1.-; HAKRA; 3-alpha-HSD; CDR; 3-alpha-hydroxysteroid dehydrogenase type I; C11; DD4; Dihydrodiol dehydrogenase 4
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Application Instructions

Assay Time	~ 5 hours
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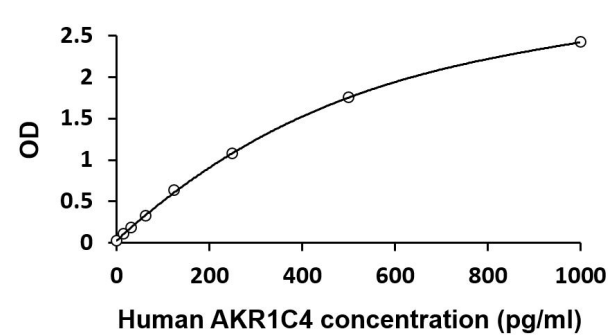
Properties

Form	96 well
Storage instruction	Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	AKR1C4
Gene Full Name	aldo-keto reductase family 1, member C4
Background	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]
Function	Catalyzes the transformation of the potent androgen dihydrotestosterone (DHT) into the less active form, 5-alpha-androstan-3-alpha,17-beta-diol (3-alpha-diol). Also has some 20-alpha-hydroxysteroid dehydrogenase activity. The biotransformation of the pesticide chlordecone (kepone) to its corresponding alcohol leads to increased biliary excretion of the pesticide and concomitant reduction of its neurotoxicity since bile is the major excretory route. [UniProt]
PTM	The N-terminus is blocked. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG82858 Human AKR1C4 ELISA Kit standard curve image

ARG82858 Human AKR1C4 ELISA Kit results of a typical standard run with optical density reading at 450 nm.