

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

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| 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% |

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| 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

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|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

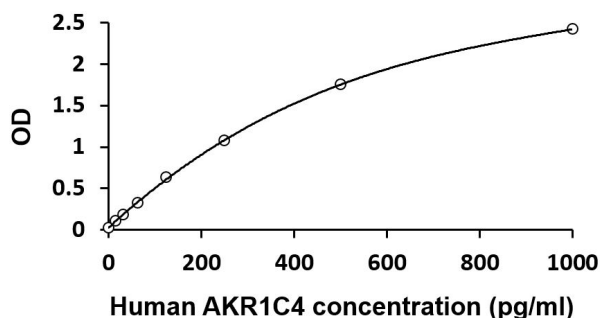
Properties

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|---------------------|--|
| 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

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|-----------------------|---|
| 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.