

ARG82857 Human AKR1C3 ELISA Kit

Package: 96 wells
Store at: 4°C

Component

Cat. No.	Component Name	Package	Temp
ARG82857-001	Antibody-coated microplate	8 X 12 strips	4°C. Unused strips should be sealed tightly in the air-tight pouch.
ARG82857-002	Standard	2 X 10 ng/vial	4°C
ARG82857-003	Standard/Sample diluent	30 ml (Ready to use)	4°C
ARG82857-004	Antibody conjugate concentrate (100X)	1 vial (100 µl)	4°C
ARG82857-005	Antibody diluent buffer	12 ml (Ready to use)	4°C
ARG82857-006	HRP-Streptavidin concentrate (100X)	1 vial (100 µl)	4°C
ARG82857-007	HRP-Streptavidin diluent buffer	12 ml (Ready to use)	4°C
ARG82857-008	25X Wash buffer	20 ml	4°C
ARG82857-009	TMB substrate	10 ml (Ready to use)	4°C (Protect from light)
ARG82857-010	STOP solution	10 ml (Ready to use)	4°C
ARG82857-011	Plate sealer	4 strips	Room temperature

Summary

Product Description	ARG82857 Human AKR1C3 ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human AKR1C3 in serum, plasma (EDTA, heparin) and cell culture supernatants.
Tested Reactivity	Hu
Tested Application	ELISA
Target Name	AKR1C3
Conjugation	HRP
Conjugation Note	Substrate: TMB and read at 450 nm.
Sensitivity	78 pg/ml
Sample Type	Serum, plasma (EDTA, heparin) and cell culture supernatants.
Standard Range	156 - 10000 pg/ml
Sample Volume	100 µl
Precision	Intra-Assay CV: 4.8% Inter-Assay CV: 5.8%

Alternate Names	Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase; Testosterone 17-beta-dehydrogenase 5; EC 1.1.1.239; Dihydrodiol dehydrogenase 3; HA1753; EC 1.1.1.112; 3-alpha-HSD type II, brain; Chlordecone reductase homolog HAKRb; DD3; Indanol dehydrogenase; EC 1.1.1.188; HSD17B5; Aldo-keto reductase family 1 member C3; DDX; 17-beta-hydroxysteroid dehydrogenase type 5; hluPGFS; 3-alpha-HSD type 2; EC 1.3.1.20; EC 1.1.1.357; Prostaglandin F synthase; HAKRe; 3-alpha-hydroxysteroid dehydrogenase type 2; EC 1.1.1.64; DD-3; 17-beta-HSD 5; HAKRB; Dihydrodiol dehydrogenase type I; PGFS
-----------------	---

Application Instructions

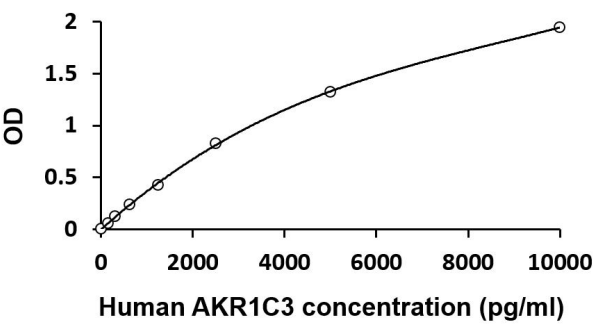
Assay Time	~ 5 hours
------------	-----------

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	AKR1C3
Gene Full Name	aldo-keto reductase family 1, member C3
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 reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ), and the oxidation of 9alpha,11beta-PGF2 to PGD2. It may play an important role in the pathogenesis of allergic diseases such as asthma, and may also have a role in controlling cell growth and/or differentiation. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]
Function	Catalyzes the conversion of aldehydes and ketones to alcohols. Catalyzes the reduction of prostaglandin (PG) D2, PGH2 and phenanthrenequinone (PQ) and the oxidation of 9-alpha,11-beta-PGF2 to PGD2. Functions as a bi-directional 3-alpha-, 17-beta- and 20-alpha HSD. Can interconvert active androgens, estrogens and progestins with their cognate inactive metabolites. Preferentially transforms androstenedione (4-dione) to testosterone. [UniProt]
Cellular Localization	Cytoplasm. [UniProt]



ARG82857 Human AKR1C3 ELISA Kit standard curve image

ARG82857 Human AKR1C3 ELISA Kit results of a typical standard run with optical density reading at 450 nm.