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Datasheet for ABIN7318144 **AKR1C3 Protein (His tag)**



Overview	
Quantity:	50 µg
Target:	AKR1C3
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKR1C3 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human AKR1C3 Protein (His Tag)
Sequence:	Met 1-Tyr323
Characteristics:	Recombinant Human Aldo-Keto Reductase Family 1 Member C3 is produced by our Mammalian expression system and the target gene encoding Met1-Tyr323 is expressed with a 6His tag at the C-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per μ g as determined by the LAL method.

Target Details

Target:	AKR1C3
Alternative Name:	AKR1C3 (AKR1C3 Products)
Background:	Background: AKR1C3, is an enzyme which belongs to the aldo/keto reductase family. It is
	expressed in many tissues including adrenal gland, brain, kidney, liver, lung, mammary gland,

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	placenta, small intestine, colon, spleen, prostate and testis. AKR1C3 catalyzes the conversion of
	aldehydes and ketones to alcohols. It catalyzes the reduction of prostaglandin (PG) D2, PGH2
	and phenanthrenequinone (PQ) and the oxidation of 9-alpha,11-beta-PGF2 to PGD2,which
	functions as a bi-directional 3-alpha-, 17-beta- and 20-alpha HSD. It can interconvert active
	androgens, estrogens and progestins with their cognate inactive metabolites.
	Synonym: Aldo-Keto Reductase Family 1 Member C3, 17-Beta-Hydroxysteroid Dehydrogenase
	Type 5, 17-Beta-HSD 5, 3-Alpha-HSD Type II Brain, 3-Alpha-Hydroxysteroid Dehydrogenase Type
	2, 3-Alpha-HSD Type 2, Chlordecone Reductase Homolog HAKRb, Dihydrodiol Dehydrogenase
	3, DD-3, DD3, Dihydrodiol Dehydrogenase Type I, HA1753, Indanol Dehydrogenase,
	Prostaglandin F Synthase, Testosterone 17-Beta-Dehydrogenase 5, Trans-1,2-Dihydrobenzene-
	1,2-Diol Dehydrogenase, AKR1C3, DDH1, HSD17B5, KIAA0119, PGFS
Molecular Weight:	37.8 kDa
UniProt:	P42330
Pathways:	Retinoic Acid Receptor Signaling Pathway, Steroid Hormone Biosynthesis, Regulation of
	Hormone Metabolic Process, Regulation of Hormone Biosynthetic Process, C21-Steroid
	Hormone Metabolic Process, Protein targeting to Nucleus
Application Details	

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from a 0.2 μm filtered solution of 20 mM PB,150 mM NaCl, pH 7.4.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.
	Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted
	samples are stable at < -20°C for 3 months.

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