

Datasheet for ABIN7318145 **AKR1C4 Protein (His tag)**



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Overview

Quantity:	50 µg
Target:	AKR1C4
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKR1C4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human AKR1C4 Protein (His Tag)
Sequence:	Met 1-Tyr323
Characteristics:	Recombinant Human Aldo-Keto Reductase Family 1 Member C4 is produced by our E.coli expression system and the target gene encoding Met1-Tyr323 is expressed with a 6His tag at the N-terminus.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.

Target Details

Target:	AKR1C4
Alternative Name:	AKR1C4 (AKR1C4 Products)
Background:	Background: Aldo-Keto Reductase 1C4/AKR1C4 is a member of the aldo/keto reductase family that consists of more than 40 known enzymes and proteins. AKR1C4 has highly expressed in

Target Details

Liver. It can catalyze the bioreduction of chlordecone, a toxic organochlorine pesticide, to chlordecone alcohol in liver. AKR1C4 catalyzes the transformation of the potent androgen dihydrotestosterone (DHT) into the less active form, 5- α -Androstan-3- α ,17- β -diol (3- α -diol). In addition, AKR1C4 also has some 20- α -Hydroxysteroid Dehydrogenase activity.

Synonym: Aldo-Keto Reductase Family 1 Member C4, 3-Alpha-HSD1, 3-Alpha-Hydroxysteroid Dehydrogenase Type I, Chlordecone Reductase, CDR, Dihydrodiol Dehydrogenase 4, DD-4, DD4, HAKRA, AKR1C4, CHDR

Molecular Weight: 39.3 kDa

UniProt: [P17516](#)

Pathways: [Steroid Hormone Biosynthesis](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Frozen, Liquid

Buffer: Supplied as a 0.2 μ m filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.

Storage: -20 °C

Storage Comment: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.