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Datasheet for ABIN1095981

**AKR1C4 Protein (AA 1-323) (His tag)**

## Overview

Quantity:	50 µg
Target:	AKR1C4
Protein Characteristics:	AA 1-323
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 Aldo-Keto Reductase 1C4/AKR1C4 (N-6His)
Sequence:	MGSSHHHHHH SSSLVPRGSH MDPKYQRVEL NDGHFMPVLG FGTYAPPEVP RNRAVEVTKL AIEAGFRHID SAYLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLWCTFF QPQMVQPALE SSLKKLQLDY VDLYLLHFPM ALKPGETPLP KDENGKVIFD TVDLSATWEV MEKCKDAGLA KSIGVSNFNY RQLEMILNKP GLKYKPVCNQ VECHPYLNQS KLLDFCKSKD IVLVAHSALG TQRHKLWVDP NSPVLLEDPV LCALAKKHKR TPALIALRYQ LQRGVVVLAK SYNEQRIREN IQVFEFQLTS EDMKVLDGLN RNYRYVVMDF LMDHPDYPFS DEY
Characteristics:	Recombinant Human Aldo-Keto Reductase 1C4/AKR1C4 is produced by our E. coli expression system. The target protein is expressed with sequence (Met1-Tyr323) of Human AKR1C4 fused with a 6His tag at the N-terminus.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered

## Product Details

Endotoxin Level: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

## Target Details

Target:	AKR1C4
Alternative Name:	Aldo-Keto Reductase 1C4/AKR1C4 ( <a href="#">AKR1C4 Products</a> )
Sub Type:	Fusionprotein
Background:	<p>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 Liver. It can catalyzes the bioreduction of chlordane, a toxic organochlorine pesticide, to chlordane alcohol in liver. AKR1C4 catalyzes the transformation of the potent androgen dihydrotestosterone (DHT) into the less active form, 5-<math>\alpha</math>-Androstan-3-<math>\alpha</math>,17-<math>\beta</math>-diol (3-<math>\alpha</math>-diol). In addition, AKR1C4 also has some 20-<math>\alpha</math>-Hydroxysteroid Dehydrogenase activity.</p> <p>Alternative Names: Aldo-Keto Reductase Family 1 Member C4, 3-<math>\alpha</math>-HSD1, 3-<math>\alpha</math>-Hydroxysteroid Dehydrogenase Type I, Chlordane Reductase, CDR, Dihydrodiol Dehydrogenase 4, DD-4, DD4, HAKRA, AKR1C4, CHDR</p>
Molecular Weight:	39.3 kDa
UniProt:	<a href="#">P17516</a>
Pathways:	<a href="#">Steroid Hormone Biosynthesis</a>

## Application Details

Restrictions: For Research Use only

## Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 μg/mL.</p> <p>Dissolve the lyophilized protein in ddH<sub>2</sub>O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 μm filtered solution of 20 mM TrisHCl, 150 mM NaCl, pH 8.0.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C

Handling

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