

# Recombinant Human AKR1C2 Protein

Catalog Number:PKSH032054



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

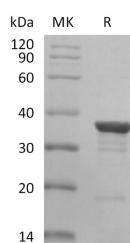
## Description

<b>Synonyms</b>	Aldo-Keto Reductase Family 1 Member C2;3-Alpha-HSD3;Chlordecone Reductase Homolog HAKRD;Dihydrodiol Dehydrogenase 2;DD-2;DD2;Dihydrodiol Dehydrogenase/Bile Acid-Binding Protein;DD/BABP;Trans-1,2-Dihydrobenzene-1,2-Diol Dehydrogenase;Type III 3-Alpha-Hydroxysteroid Dehydrogenase;AKR1C2;DDH2
<b>Species</b>	Human
<b>Expression Host</b>	E.coli
<b>Sequence</b>	Met 1-Tyr323
<b>Accession</b>	P52895
<b>Calculated Molecular Weight</b>	36.7 kDa
<b>Observed molecular weight</b>	35 kDa
<b>Tag</b>	None

## Properties

<b>Purity</b>	> 90 % as determined by reducing SDS-PAGE.
<b>Endotoxin</b>	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
<b>Storage</b>	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
<b>Shipping</b>	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
<b>Formulation</b>	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 100mM NaCl, 1mM DTT, pH 8.0.
<b>Reconstitution</b>	Not Applicable

## Data



> 90 % as determined by reducing SDS-PAGE.

## Background

Aldo-Keto Reductase Family 1 Member C2 (AKR1C2) plays a role in concert with the 5- $\alpha$ /5- $\beta$ -Steroid Reductases to convert Steroid hormones into the 3- $\alpha$ /5- $\alpha$  and 3- $\alpha$ /5- $\beta$ -Tetrahydrosteroids. AKR1C2 catalyzes the inactivation of the most potent androgen 5- $\alpha$ -Dihydrotestosterone (5- $\alpha$ -DHT) to 5- $\alpha$ -Androstan-3- $\alpha$ , 17- $\beta$ -diol (3- $\alpha$ -diol).

## For Research Use Only

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