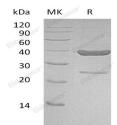
## **Recombinant Human AKR1C4 Protein (His Tag)**

Catalog Number: PKSH032056



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

Description	
Synonyms	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
Species	Human
Expression Host	E.coli
Sequence	Met 1-Tyr323
Accession	P17516
Calculated Molecular Weight	39.3 kDa
Observed molecular weight	35-40 kDa
Tag	N-His
Properties	
Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per $\mu$ g of the protein as determined by the LAL method.
Storage	Store at $< -20^{\circ}$ C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at $< -20^{\circ}$ C.
Formulation	Supplied as a 0.2 $\mu$ m filtered solution of 20mM Tris-HCl, 150mM NaCl, pH 8.0.
Reconstitution	Not Applicable
Data	



> 90 % as determined by reducing SDS-PAGE.

## 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 Liver. It can catalyzes 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,  $5-\alpha$ -Androstan- $3-\alpha$ ,  $17-\beta$ -diol ( $3-\alpha$ -diol). In addition, AKR1C4 also has some  $20-\alpha$ -Hydroxysteroid Dehydrogenase activity.

## For Research Use Only

A Reliable Research Partner in Life Science and Medicine Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Web: www.elabscience.com Email: techsupport@elabscience.com