

Recombinant Human AKR1C4 Protein (His Tag)

Catalog No. PKSH032056

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

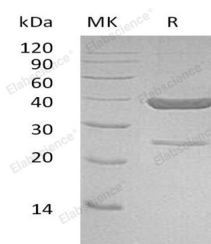
Description

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
Bioactivity	Not validated for activity

Properties

Purity	> 90 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°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°C.
Formulation	Supplied as a 0.2 µm 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- α -Androstan-3- α ,17- β -diol (3- α -diol). In addition, AKR1C4 also

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has some 20- α -Hydroxysteroid Dehydrogenase activity.