



Recombinant Protein Technical Manual

Recombinant Human AKR1C4 Protein (His Tag)

RPES2308

Product Data:

Product SKU: RPES2308

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: P17516

Protein Information:

Molecular Mass: 39.3 kDa

AP Molecular Mass: 26&38 kDa

Tag: N-6His

Bio-activity:

Purity: > 90 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg 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 TrisHCl, 150mM NaCl, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

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

Immunogen Information:

Sequence: Met 1-Tyr323

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 is highly expressed in 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.