

AKR1C4 Protein, Human, Recombinant (His)

General Information

Synonyms:	aldo-keto reductase family 1, member C4;3-alpha-HSD;DD4;CHDR;AKR1C4;HAKRA;CDR;C11;DD-4;3- α -HSD
Protein Construction:	Met1-Tyr323
Species:	Human
Expression Host:	E. coli
Accession:	P17516
Molecular Weight:	39.3 kDa (Predicted); 35-40 kDa (Reducing conditions)

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as a 0.2 μ m filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Solutions are shipped with dry ice.

Protein 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 has some 20- α -Hydroxysteroid Dehydrogenase activity.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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