



# Recombinant Human Aldo-keto reductase family 1 member C4 (AKR1C4)

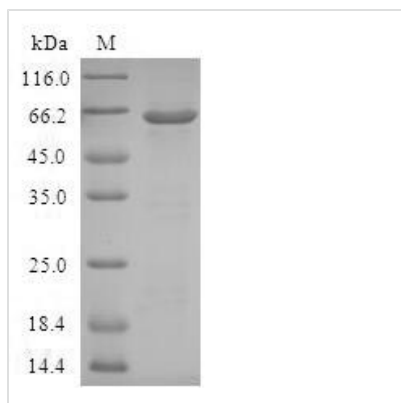
<b>Product Code</b>	CSB-EP001545HU
<b>Relevance</b>	Catalyzes the transformation of the potent androgen dihydrotestosterone (DHT) into the less active form, 5-alpha-androstan-3-alpha,17-beta-diol (3-alpha-diol). Also has some 20-alpha-hydroxysteroid dehydrogenase activity. The biotransformation of the pesticide chlordecone (kepone) to its corresponding alcohol leads to increased biliary excretion of the pesticide and concomitant reduction of its neurotoxicity since bile is the major excretory route.
<b>Abbreviation</b>	Recombinant Human AKR1C4 protein
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P17516
<b>Alias</b>	3-alpha-HSD1 3-alpha-hydroxysteroid dehydrogenase type I Chlordecone reductase
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTCLAIEAGFRHIDSAY LYNNEEQVGLAIRSKIADGSKREDIFYTSKLWCTFFQPQMVPALLESSLKKLQ LDYVDLYLLHFPALKPGETPLPKDENGKVFDTVDLSATWEVMEKCKDAGLA KSGVSNFNCRQLEMILNKPGLKYKPCNQVECHPYLNQSKLLDFCKSKDIVLV AHSALGTQRHKLWVDPNSPVLLEDPVLCALAKKHKQTPALIALRYQLQRGVVV LAKSYNEQRIRENIQVFEFQLTSEDMKVL DGLNRNYRYVVMDFLMDHPDYPFS DEY
<b>Research Area</b>	Signal Transduction
<b>Source</b>	E.coli
<b>Target Names</b>	AKR1C4
<b>Protein Names</b>	Recommended name: Aldo-keto reductase family 1 member C4 EC= 1.1.1.- Alternative name(s): 3-alpha-HSD1 3-alpha-hydroxysteroid dehydrogenase type I EC= 1.1.1.50 Chlordecone reductase Short name= CDR EC= 1.1.1.225
<b>Expression Region</b>	1-323aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	N-terminal GST-tagged
<b>Mol. Weight</b>	64.1kDa



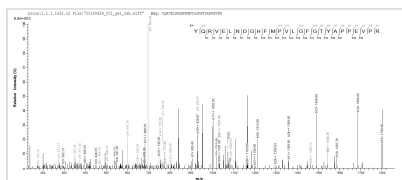
## Protein Length

## Full Length

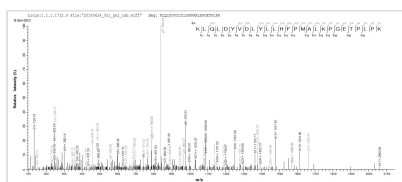
### Image



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.



Based on the SEQUEST from database of E.coli host and target protein, the LC-MS/MS Analysis result of CSB-EP001545HU could indicate that this peptide derived from E.coli-expressed Homo sapiens (Human) AKR1C4.



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## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

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