

## Aldo-keto reductase family 1 member C4 (AKR1C4) Recombinant Protein | AKR1C4 recombinant protein

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

|                               |                                                                 |
|-------------------------------|-----------------------------------------------------------------|
| CATALOG #<br><b>AAA113529</b> | HOST<br><b>E Coli or Yeast or Baculovirus or Mammalian Cell</b> |
|-------------------------------|-----------------------------------------------------------------|

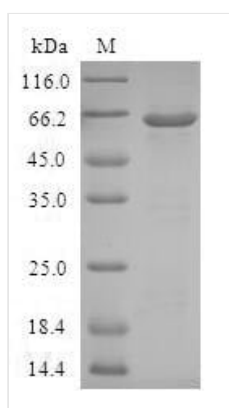
### PRODUCT SYNONYMS

Aldo-keto reductase family 1 member C4 (AKR1C4); Recombinant Human Aldo-keto reductase family 1 member C4 (AKR1C4); Aldo-keto reductase family 1 member C4; EC=1.1.1.1.-; 3-alpha-HSD1; 3-alpha-hydroxysteroid dehydrogenase type I; EC=1.1.1.50; Chlordecone reductase; CDR; EC=1.1.1.225; Dihydrodiol dehydrogenase 4; DD-4; DD4; HAKRA; AKR1C4 recombinant protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli or Yeast or Baculovirus or Mammalian Cell                                                                                                                                                                                                                                                                                                                                |
| Purity/Purification     | Greater or equal to 85% purity as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                                                       |
| Form/Format             | Lyophilized or liquid (Format to be determined during the manufacturing process)                                                                                                                                                                                                                                                                                                |
| Sequence Positions      | 1-323aa; Full Length                                                                                                                                                                                                                                                                                                                                                            |
| Sequence                | MDPKYQRVEL NDGHFMPVLG FGTYAPPEVP RNRAVEVTKL AIEAGFRHID SAYLYNNEEQ VGLAIRSKIA<br>DGSVKREDIF YTSKLWCTFF QPQMVPQPALE SSLKKLQLDY VDLYLLHFP ALKPGETPLP KDENGKVID<br>TVDSLATWEV MEKCKDAGLA KSIGVSNFNC RQLEMILNKP GLKYKPVCNQ VECHPYLNQS KLLDFCKSKD<br>IVLVAHSALG TQRHKLWVDP NSPVLLEDPV LCALAKKHKQ TPALIALRYQ LQRGVVVLAK SYNEQRIREN<br>IQVFEFQLTS EDMKVL DGLN RNYRYVVMDF LMDHPDYPFS DEY |
| Species                 | Homo sapiens (Human)                                                                                                                                                                                                                                                                                                                                                            |
| Preparation and Storage | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.                                                                                                                                                                             |

### IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

|                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for AKR1C4 recombinant protein | 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 chlordane (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. |
| Product Categories/Family for AKR1C4 recombinant protein   | Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                |

NCBI AND UNIPROT INFORMATION

|                                  |                                                                                                                                                                                                                                          |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 325652083                                                                                                                                                                                                                                |
| NCBI GeneID                      | 1109                                                                                                                                                                                                                                     |
| NCBI Accession #                 | NP_001809.3                                                                                                                                                                                                                              |
| NCBI GenBank Nucleotide #        | NM_001818.3                                                                                                                                                                                                                              |
| UniProt Accession #              | P17516; Q5T6A3; Q8WW84; Q9NS54; AAB47003                                                                                                                                                                                                 |
| Molecular Weight                 | 64.1 kDa                                                                                                                                                                                                                                 |
| NCBI Official Full Name          | aldo-keto reductase family 1 member C4                                                                                                                                                                                                   |
| NCBI Official Synonym Full Names | aldo-keto reductase family 1, member C4                                                                                                                                                                                                  |
| NCBI Official Symbol             | AKR1C4                                                                                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | C11; CDR; DD4; CHDR; DD-4; HAKRA; 3-alpha-HSD                                                                                                                                                                                            |
| NCBI Protein Information         | aldo-keto reductase family 1 member C4; 3-alpha-HSD1; dihydrodiol dehydrogenase isozyme DD4; type I 3-alpha-hydroxysteroid dehydrogenase; chlordane reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4 |
| UniProt Protein Name             | Aldo-keto reductase family 1 member C4                                                                                                                                                                                                   |
| UniProt Gene Name                | AKR1C4                                                                                                                                                                                                                                   |
| UniProt Synonym Gene Names       | CHDR; CDR; DD-4; DD4                                                                                                                                                                                                                     |
| UniProt Entry Name               | AK1C4_HUMAN                                                                                                                                                                                                                              |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/akr1c4-recombinant-protein-e-coli-or-yeast-or-baculovirus-or-mammalian-cell/113529>