

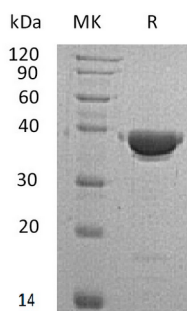
**Product Name: Recombinant Human AKR1C4 (N-6His)**  
**Catalog #: PEH0038**



## 概述 (Summary)

|                             |                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 英文全称                        | AKR1C4/Aldo-keto Reductase 1C4                                                                                                                                                                |
| 纯度 (Purity)                 | Greater than 95% as determined by reducing SDS-PAGE                                                                                                                                           |
| 内毒素 (Endotoxin level)       | <1 EU/μg as determined by LAL test.                                                                                                                                                           |
| 蛋白构建 (Construction)         | Recombinant Human Aldo-Keto Reductase Family 1 Member C4 is produced by our E.coli expression system and the target gene encoding Met1-Tyr323 is expressed with a 6His tag at the N-terminus. |
| Accession #                 | P17516                                                                                                                                                                                        |
| 蛋白标签 (Tag)                  |                                                                                                                                                                                               |
| 表达宿主 (Host)                 | E.coli                                                                                                                                                                                        |
| 种属 (Species)                | Human                                                                                                                                                                                         |
| 预测分子量 (Predicted MW)        | 39.3 KDa                                                                                                                                                                                      |
| 蛋白形态 (Form)                 | Supplied as a 0.2 μm filtered solution of 20mM Tris-HCl, 15% Sucrose, 200mM NaCl, 1mM TCEP, 0.05% Tween80, pH8.8.                                                                             |
| 储存缓冲液 (Buffer)              |                                                                                                                                                                                               |
| 运输方式 (Shipping)             | The product is shipped on dry ice/polar packs. Upon receipt, store it immediately at the temperature listed below.                                                                            |
| 稳定性&储存 (Stability &Storage) | Store at ≤-70°C, stable for 6 months after receipt. Store at ≤-70°C, stable for 3 months under sterile conditions after opening. Please minimize freeze-thaw cycles.                          |
| 复溶 (Reconstitution)         |                                                                                                                                                                                               |

## 电泳图 (SDS-PAGE image)



## 背景 (Background)

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**分子别名 (Alternative Names)**

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

**背景介绍 (References)**

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- $\alpha$ -Androstan-3- $\alpha$ ,17- $\beta$ -diol (3- $\alpha$ -diol). In addition, AKR1C4 also has some 20- $\alpha$ -Hydroxysteroid Dehydrogenase activity.

**注意事项 (Note)**

For Research Use Only , Not for Diagnostic Use.