

**Human recombinant protein AKR7A2**  
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**Catalog # PBV10572r****Specification**

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**Human recombinant protein AKR7A2 - Product info**

|                   |                        |
|-------------------|------------------------|
| Primary Accession | <a href="#">O43488</a> |
| Concentration     | 0.5                    |
| Calculated MW     | 44 kDa KDa             |

**Human recombinant protein AKR7A2 - Additional Info**

|             |        |
|-------------|--------|
| Gene ID     | 8574   |
| Gene Symbol | AKR7A2 |

**Other Names**

Aldo-keto reductase family 7, member A 2, Aflatoxin B1 aldehyde reductase member 2, AFAR, AFAR1, AFB1-AR1, AKR7.

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Source    | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Source         | E. coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Assay&Purity   | SDS-PAGE; ≥95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Assay2&Purity2 | N/A;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Recombinant    | Yes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Sequence       | MRGSHHHHHH GMASMTGGQQ<br>MGRDLYDDDD KDRWGSELE LSAASRVVSR<br>AAVHCALRSP PPEARALAMS RPPPPRVASV<br>LGTMEMGRRM DAPASAAVR AFLERGHTEL<br>DTAFMYSDGQ SETILGGLGL GLGGGDCRVK<br>IATKANPWDG KSLKPDSVRS QLETSLKRLQ<br>CPQVDLFYLH APDHGTPVEE TLHACQRLHQ<br>EGKFVELGLS NYASWEVAEI CTLCKSNGWI<br>LPTVYQGMYN ATTRQVETEL FPCLRHFGLR<br>FYAYNPLAGG LLTGKYKYED KDGKQPVGRF<br>FGNSWAETYN NFWKEHHFE AIALVEKALQ<br>AAYGASAPSV TSAALRWMYH HSQIQGAHGD<br>AVILGMSSLE QLEQNLAATE EGPLEPAVVD<br>AFNQAWHLVA HECPNYFR |

**Format**

Liquid

**Storage**

-80°C; 0.5 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 1 mM DTT and 20% glycerol.

**Human recombinant protein AKR7A2 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **Human recombinant protein AKR7A2 - Images**

#### **Human recombinant protein AKR7A2 - Background**

Aldo-keto reductases, such as AKR7A2, are involved in the detoxification of aldehydes and ketones. This protein can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the nonbinding AFB1 dialcohol. It may be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen. Also, it has been proposed previously to catalyze the NADPH-dependent reduction of succinic semialdehyde (SSA) to Gamma-Hydroxybutyrate in human brain.