

## Recombinant Human AKR7A2 protein, His-tagged

**Cat. No.** AKR7A2-3703H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                   |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human AKR7A2 protein(60-359 aa), fused to His tag, was expressed in E. coli.                                                                                                                                                                                                                                          |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 60-359 aa                                                                                                                                                                                                                                                                                                                         |
| <b>Form</b>             | The purified protein was Lyophilized from sterile PBS (58mM Na <sub>2</sub> HPO <sub>4</sub> , 17mM NaH <sub>2</sub> PO <sub>4</sub> , 68mM NaCl, pH7.4). 5 % trehalose and 5 % mannitol are added as protectant before lyophilization. The elution buffer contain 300mM imidazole.                                               |
| <b>AA Sequence</b>      | RAFLERGHTELDTAFMYSDGQSETILGGLGLGLGGGDCRVKIATKANPWDGKSLKP<br>DSVRSQLETSLKRLQCPQVDLFYLHAPDHGTPVEETLHACQRLHQEGKFVELGLSN<br>YASWEVAEICTLCKSNGWILPTVYQGMYNATTRQVETELFPCLRHFGRLRFYAYNPLA<br>GGLLTGKYKYEDKDGKQPVGRFFGNSWAETYNRFRWKEHHFEAIALVEKALQAAY<br>GASAPSVTSAALRWMYHHSQQLQGAHGDAVILGMSSLEQLEQNLAATEEGPLEPAVV<br>DAFNQAWHLVAHECPNYFR |
| <b>Purity</b>           | 85%, by SDS-PAGE with Coomassie Brilliant Blue staining.                                                                                                                                                                                                                                                                          |
| <b>Storage</b>          | Short-term storage: Store at 2-8°C for (1-2 weeks).<br>Long-term storage: Aliquot and store at -20°C to -80°C for up to 3 months, buffer containing 50% glycerol is recommended for reconstitution. Avoid repeat freeze-thaw                                                                                                      |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

cycles.

#### Reconstitution

Reconstitute at 0.25 g/μl in 200 μl sterile water for short-term storage.  
Reconstitution with 200 μl 50% glycerol solution is recommended for longer term storage.

## GENE INFORMATION

#### Gene Name

AKR7A2 aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase) [ Homo sapiens ]

#### Official Symbol

AKR7A2

#### Synonyms

AKR7A2; aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase); aflatoxin B1 aldehyde reductase member 2; AFAR; AFB1-AR 1; SSA reductase; aldoketoreductase 7; AFB1 aldehyde reductase 1; succinic semialdehyde reductase; aflatoxin beta1 aldehyde reductase; AKR7; AFAR1; AFB1-AR1;

#### Gene ID

8574

#### mRNA Refseq

NM\_003689

#### Protein Refseq

NP\_003680

#### MIM

603418

#### UniProt ID

O43488

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