# Recombinant Human AKR1B10 Protein (M1-Y316), Tag Free

**Cat. No.** AKR1B10-0254H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Recombinant Human Aldose-reductase(M1-Y316 end) Protein was expressed in E. coli. |
| **Species** | Human |
| **Source** | E.coli |
| **ProteinLength** | M1-Y316 |
| **Description** | Catalyzes the NADPH-dependent reduction of a wide variety of carbonyl-containing compounds to their corresponding alcohols. Displays strong enzymatic activity toward all-trans-retinal, 9-cis-retinal, and 13-cis-retinal. Plays a critical role in detoxifying dietary and lipid-derived unsaturated carbonyls, such as crotonaldehyde, 4-hydroxynonenal, trans-2-hexenal, trans-2,4-hexadienal and their glutathione-conjugates carbonyls (GS-carbonyls). Displays no reductase activity towards glucose. |
| **Form** | Liquid |
| **Endotoxin** | < 0.01 EU per μg of the protein |
| **Purity** | 90% |
| **Stability** | Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade. |

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| **Storage** | Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Storage Buffer** | Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol |
| **Shipping** | It is shipped out with blue ice. |

## GENE INFORMATION

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| **Gene Name** | AKR1B10 aldo-keto reductase family 1, member B10 (aldose reductase) [ Homo sapiens (human) ] |
| **Official Symbol** | AKR1B10 |
| **Synonyms** | AKR1B10; aldo-keto reductase family 1, member B10 (aldose reductase); AKR1B11; aldo-keto reductase family 1 member B10; AKR1B12; aldo keto reductase family 1; member B11 (aldose reductase like); aldose reductase like 1; aldose reductase like peptide; aldose reductase related protein; ALDRLn; ARL 1; ARL1; HIS; HSI; small intestine reductase; ARP; hARP; SI reductase; aldose reductase-like 1; aldose reductase-like peptide; aldose reductase-related protein; aldo-keto reductase family 1, member B11 (aldose reductase-like); ARL-1; MGC14103; |
| **Gene ID** | 57016 |
| **mRNA Refseq** | NM_020299 |
| **Protein Refseq** | NP_064695 |
| **MIM** | 604707 |
| **UniProt ID** | O60218 |

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