

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

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

SPECIFICATION

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	
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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