Recombinant Human AKR1B1, His-tagged

Cat. No. AKR1B1-9531H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AKR1B1 protein, fused to His-tag, was expressed in E.coli and purified by Ni-sepharose.
Species	Human
Source	E.coli
ProteinLength	1-316a.a.
Description	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member catalyzes the reduction of a number of aldehydes, including the aldehyde form of glucose, and is thereby implicated in the development of diabetic complications by catalyzing the reduction of glucose to sorbitol. Multiple pseudogenes have been identified for this gene. The nomenclature system used by the HUGO Gene Nomenclature Committee to define human aldo-keto reductase family members is known to differ from that used by the Mouse Genome Informatics database.
Source	E.coli
Species	Human
Tag	His
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing

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	cycles.
Storage Buffer	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8.) added with 300mM Imidazole and 0.7% Sarcosyl, 15%glycerol.

GENE INFORMATION

Gene Name	AKR1B1 aldo-keto reductase family 1, member B1 (aldose reductase) [Homo sapiens]
Official Symbol	AKR1B1
Synonyms	AKR1B1; aldo-keto reductase family 1, member B1 (aldose reductase); ALDR1; aldose reductase; AR; aldehyde reductase 1; low Km aldose reductase; Lii5-2 CTCL tumor antigen; aldo-keto reductase family 1 member B1; ADR; ALR2; MGC1804;
Gene ID	231
mRNA Refseq	NM_001628
Protein Refseq	NP_001619
MIM	103880
UniProt ID	P15121
Chromosome Location	7q35
Pathway	Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Galactose metabolism, organism-

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	specific biosystem; Galactose metabolism, conserved biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;
Function	alditol:NADP+ 1-oxidoreductase activity; aldo-keto reductase (NADP) activity; electron carrier activity; glyceraldehyde oxidoreductase activity; oxidoreductase activity;

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