

Recombinant Full Length Human AKR1B1 Protein, GST-tagged

Cat. No. AKR1B1-1363HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human AKR1B1 full-length ORF (AAH00260.1, 1 a.a. - 316 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	316 amino acids
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. [provided by RefSeq, Feb 2009]
Molecular Mass	60.39 kDa
AA Sequence	MASRLLLNNG AKMPILGLGT WKSPPGQVTE AVKVAIDVGY RHIDCAHVYQ NENEVGVAIQ EKLREQVVKR EELFIVSKLW CTYHEKGLVK GACQKTLSDL KLDYLDLYLI HWPTGFKPGK EFFPLDESGN VVPSDTNILD TWAAMEELVD EGLVKAIGIS NFNHLQVEMI LNKPGLKYKP AVNQIECHPY LTQEKLIQYC QSKGIVVTAY SPLGSPDRPW AKPEDPSLLE DPRIKAIAAK HNKTTAQVLI

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RFPMQRNLVV IPKSVTPERI AENFKVDFE LSSQDMTTLL SYNRNWRVCA
LLSCTSHKDY PFHEEF

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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](#)

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