

Recombinant Full Length Human AKR1B1 Protein, C-Flag-tagged

Cat. No. AKR1B1-1172HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AKR1B1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	35.7 kDa
AA Sequence	MASRLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVG YRHIDCAHVYQNEVEG VAIQEKLREQVVKR EELFIVSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWP TGFKPGKEFFPLDESGNVVPSDTNILD TWAAMEELVDEGLVKAIGISNFNHLQVEMI LNKPGLKYKPAVNQIECHPYLTQEKL IQYCQSKGIVVTAY SPLGSPDRPWAKPEDPS

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LLEDPRIKAIAAKHNKTTAQVLIRFPMQRNLVVIPKSVTPERIAENFKVDFE
LSSQDMTTLLSYNRNWRVCALLSCTSHKDYPFHHEEFTRTRPLEQKLISEEDLAANDIL
DYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome
Protein Pathways	Fructose and mannose metabolism, Galactose metabolism, Glycerolipid metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Pyruvate metabolism
Full Length	Full L.

GENE INFORMATION

Gene Name	AKR1B1 aldo-keto reductase family 1 member B [Homo sapiens (human)]
Official Symbol	AKR1B1
Synonyms	AR; ADR; ALR2; ALDR1

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Gene ID	231
mRNA Refseq	NM_001628.4
Protein Refseq	NP_001619.1
MIM	103880
UniProt ID	P15121

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