

## Product datasheet for **TP300504L**

### **AKR1B1 (NM\_001628) Human Recombinant Protein**

#### Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Homo sapiens aldo-keto reductase family 1, member B1 (aldose reductase) (AKR1B1), 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC200504 representing NM_001628 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MASLLLLNNGAKMPILGLGTWKSPPGQVTEAVKVAIDVGYRHIDCAHVYQNEVEGVVAIQEKLRQWKR  
EELFIVSKLWCTYHEKGLVKGACQKTLSDLKLDYLDLYLIHWPTGFKPGKEFFPLDESGNVVPSDTNILD  
TWAAMEELVDEGLVKAIGISNFNHLQVEMILNKPGLKYKPAVNQIECHPYLTQEKLIQCQSKGIVTAY  
SPLGSPDRPWAKPEDPSLLEDPRIKAIKHNKTTAQLIRFPMQRNLVVIPKSVTPERIAENFKVDFDE  
LSSQDMTLLSYNRNWRVCALLSCTSHKDYPFHEEF

**TR**TRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Predicted MW:	35.7 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	<a href="#">NP_001619</a>
Locus ID:	231



[View online »](#)

UniProt ID: [P15121](#), [A0A024R7A8](#)

RefSeq Size: 1416

Cytogenetics: 7q33

RefSeq ORF: 948

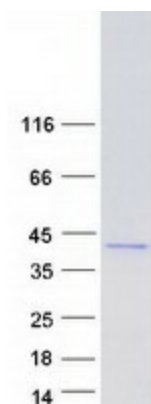
Synonyms: ADR; ALDR1; ALR2; AR

**Summary:** 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]

**Protein Families:** Druggable Genome

**Protein Pathways:** Fructose and mannose metabolism, Galactose metabolism, Glycerolipid metabolism, Metabolic pathways, Pentose and glucuronate interconversions, Pyruvate metabolism

### Product images:



Coomassie blue staining of purified AKR1B1 protein (Cat# [TP300504]). The protein was produced from HEK293T cells transfected with AKR1B1 cDNA clone (Cat# [RC200504]) using MegaTran 2.0 (Cat# [TT210002]).