

AKR1B10, human recombinant protein**Aldo-keto reductase family 1, member B10, AKR1B11, AKR1B12, ALDRLn, ARL-1, ARL1, HIS, HIS.****Catalog # PBV10576r****Specification**

AKR1B10, human recombinant protein - Product info

Primary Accession	O60218
Concentration	1
Calculated MW	36 kDa KDa

AKR1B10, human recombinant protein - Additional Info

Gene ID	57016
Gene Symbol	AKR1B10
Other Names	
Aldo-keto reductase family 1, member B10, AKR1B11, AKR1B12, ALDRLn, ARL-1, ARL1, HIS, HIS.	

Gene Source	Human
Source	E. coli
Assay&Purity	SDS-PAGE; ≥98%
Assay2&Purity2	N/A;
Recombinant	Yes
Results	~100 mU/mg
Sequence	MATFVELSTK AKMPIVGLGT WKSPLGKVKE AVKVAIDAGY RHIDCAYVYQ NEHEVGAIQ EKIQEKAVKR EDLFIVSKLW PTFFERPLVR KAFEKTLKDL KLSYLDVYLI HWPQGFKSGD DLFPKDDKGN AIGGKATFLD AWEAMEELVD EGLVKALGVS NFSHFQIEKL LNKPGLKYKP VTNQVECHPY LTQEKLIQYC HSKGITVTAY SPLGSPDRPW AKPEDPSLLE DPKIKEIAAK HKKTAAQVLI RFHIQRNVIV IPKSVTPARI VENIQVFDFK LSDEEMATIL SFNRNWRACN VLQSSHLEDY PFDAEY

Target/Specificity
AKR1B10**Format**
Liquid**Storage**
-80°C; 1 mg/ml solution in 20 mM Tris-HCl buffer (pH 8.0) containing 50% glycerol.**AKR1B10, human recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

AKR1B10, human recombinant protein - Images**AKR1B10, human recombinant protein - Background**

AKR1B10 is a monomeric protein that efficiently catalyzes the reduction of aromatic and aliphatic aldehydes and ketones. AKR1B10 is ubiquitously expressed in many human tissues but is highly expressed in small intestine, colon and adrenal gland. This protein is pathogenically involved in diabetic complications. It has been reported that AKR1B10 is overexpressed in human tumors, such as liver, breast, and lung cancer, and may play a critical role in the development and progression of cancer.

AKR1B10, human recombinant protein - References

Cao D., et al. J. Biol. Chem. 273:11429-11435(1998).
Hyndman D.J., et al. Biochim. Biophys. Acta 1399:198-202(1998).
Heringlake S., et al. Submitted (JUN-2002) to the EMBL/GenBank/DDBJ databases.
Kalnina N., et al. Submitted (MAY-2003) to the EMBL/GenBank/DDBJ databases.
Ebert L., et al. Submitted (JUN-2004) to the EMBL/GenBank/DDBJ databases.