

AKR1B10 active protein

AKR1B10, 1-316aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48534	HOST E Coli	APPLICATIONS SDS-Page
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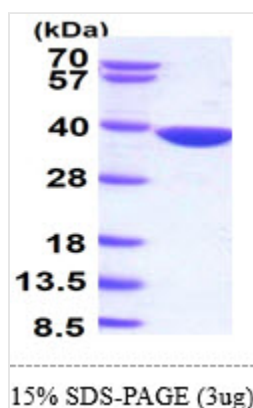
PRODUCT SYNONYMS

AKR1B10; 1-316aa; Human; E Coli (Bioactivity Validated); Aldo-keto reductase family 1 member B10; AKR1B11; AKR1B12; ALDRLn; ARL-1; ARL1; HIS; Aldo-keto reductase family 1; member B10; member B10 Aldose reductase like; Aldose reductase related protein; ARL 1; hARP; SI reductase; Small intestine reductase.; AKR1B10 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer (pH 8.0) containing 10% glycerol.
Concentration	1 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MATFVELSTK AKMPIVGLGT WKSPLGKVKE AVKVAIDAGY RHIDCAYVYQ NEHEVGEGAIQ EKIQEKAVKR EDLFIVSKLW PTFFERPLVR KAFEKTLKDL KLSYLDVYLI HWPQGFKSGD DLFPKDDKGN AIGGKATFLD AWEAMEELVD EGLVKALGVS NFSHFQIEKL LNKPGLYKP VTNQVECHPY LTQEKLQYC HSKGITVTAY SPLGSPDRPW AKPEDPSLLE DPKIKEIAAK HKKTAAQVLI RFHIQRNVIV IPKSVTPARI VENIQVFDFK LSDEEMATIL SFNRNWRACN VLQSSHLEDY PFDAEY
Sequence Length	316
Applicable Applications for AKR1B10 active protein	Enzyme Activity, SDS-PAGE
Tag	Non-Tagged
Biological Activity	Specific activity is > 1,500pmol/min/ug, and was obtained by measuring the decrease of NADP in absorbance at 340nm resulting from NADPH at pH 7.0 at 37C.
Preparation and Storage	Can be stored at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freeze and thawing cycles.

IMAGES



SDS-PAGE

#ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for AKR1B10 active protein	AKR1B10, also known as Aldo-keto reductase family 1, member B10, 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 and 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. Recombinant human AKR1B10 protein was expressed in E Coli and purified by using conventional chromatography.
Product Categories/Family for AKR1B10 active protein	Redox Proteins
References	Yabe D., et al. (1997) J Biol Chem. 272 (29):18232-9.; Vorum H., et al. (1998) Biochim Biophys Acta. 1386 (1):121-31.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	223468663
NCBI GeneID	57016
NCBI Accession #	NP_064695
NCBI GenBank Nucleotide #	NM_020299.4
UniProt Accession #	O60218; O75890; Q6FHF3; Q8IWZ1; A4D1P1
Molecular Weight	36 kDa (316aa), confirmed by MALDI-TOF.
NCBI Official Full Name	aldo-keto reductase family 1 member B10
NCBI Official Synonym Full Names	aldo-keto reductase family 1 member B10
NCBI Official Symbol	AKR1B10
NCBI Official Synonym Symbols	HIS; HSI; ARL1; ARL-1; ALDRLn; AKR1B11; AKR1B12
NCBI Protein Information	aldo-keto reductase family 1 member B10
UniProt Protein Name	Aldo-keto reductase family 1 member B10
UniProt Gene Name	AKR1B10
UniProt Synonym Gene Names	AKR1B11; ARP; hARP; SI reductase

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/e-coli-active-protein/akr1b10/48534>