

Product datasheet for **AR09195PU-L**

AKR1B10 (1-316) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	AKR1B10 (1-316) human recombinant protein, 0.5 mg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	MATFVELSTK AKMPIVGLGT WKSPLGKVKE AVKVAIDAGY RHIDCAYVYQ NEHEVGAEIQ EKIQEKAVKR EDLFIVSKLW PTFFERPLVR KAFEKTLKDL KLSYLDVYLI HWPQGFKSGD DLFPKDDKGN AIGGKATFLD AWEAMEELVD EGLVKALGVS NFSHFQIEKL LNKPGGLKYKP VTNQVECHPY LTQEKLQYC HSKGITVTAY SPLGSPDRPW AKPEDPSLLE DPKIKEIAAK HKKTAAQVLI RFHIQRNVIV IPKSVTPARI VENIQVFDFK LSDEEMATIL SFNRNWRACN VLQSSHLEDY PFDAEY
Concentration:	lot specific
Purity:	>95% pure by SDS-PAGE
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% Glycerol
Bioactivity:	Biological: Approximately 0.32-0.4 units/mg protein. Enzymatic activity was confirmed by measuring the amount of enzyme catalyzing the oxidation of 1 micromole NADPH per minute at 25°C. Activity Assay 1. Prepare a 1.0 ml reaction mix into a suitable container: The final concentrations are 0.1M sodium phosphate (pH 7.0), 10mM DL-glyceraldehyde, 0.3mM NADPH. 2. Add 50 ul of recombinant AKR1B10 solution with various concentrations (2.5ug, 5ug, 10ug) in 750 ul reaction buffer. 3. Mix by inversion and incubate at 25°C for 2.5 minutes. 4. Add 200 ul of 50 mM DL-glyceraldehyde as a substrate and immediately mix by inversion. 5. Record the increase in A340nm for 3 minutes.
Preparation:	Liquid purified protein
Protein Description:	Recombinant Human AKR1B10 protein was expressed in <i>E.coli</i> and purified by using conventional chromatography.
Storage:	Store undiluted at -2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.



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Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_064695</u>
Locus ID:	57016
UniProt ID:	<u>O60218</u>
Cytogenetics:	7q33
Synonyms:	AKR1B11, Aldose reductase-like, ARL-1
Summary:	This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member can efficiently reduce aliphatic and aromatic aldehydes, and it is less active on hexoses. It is highly expressed in adrenal gland, small intestine, and colon, and may play an important role in liver carcinogenesis. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome
Protein Pathways:	Butanoate metabolism, Fructose and mannose metabolism, Linoleic acid metabolism, Metabolic pathways

Product images:

