
Product Data Sheet

Product Name: AKR1B10 Human

Cat. No.: GP21376

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	HIS; HSI; ARL1; ARL-1; ALDRLn; AKR1B11; AKR1B12; MGC14103; AKR1B10; Aldo-keto reductase family 1 member B10; Aldose reductase-like; Aldose reductase-related protein; ARP; hARP; Small intestine reductase; SI reductase.		
Amino Acid Sequence	MATFVELSTK AKMPIVGLGT WKSPLGKVKE AVKVAIDAGY RHIDCAYVYQ NEHEVGELAIQ EKIQEKAVKR EDLFIVSKLW PTFFERPLVRKAFKTLKDL KLSYLDVYLI HWPQGFKSGD DLFPKDDKGN AIGGKATFLD AWEAMEELVD EGLVKALGVS NFSHFQIEKL LNKPGLKYKP VTNQVECHPY LTQEKLIQYC HSKGITVTAY SPLGSPDRPW AKPEDPSLLE DPKIKEIAAK HKKTAAQVLI RFHIQRNVIV IPKSVTPARIVENIQVDFDK LSDEEMATIL SFNRNWRACN VLQSSHLEDY PFDAEY.		
Formulation	The AKR1B10 solution contains 20mM Tris-HCl pH-8 and 10% glycerol.		

Introduction

AKR1B10 efficiently reduces aliphatic and aromatic aldehydes, and it is less active on hexoses. AKR1B10 is highly expressed in adrenal gland, small intestine, and colon, and may play an important role in liver carcinogenesis. AKR1B10 is a monomeric protein that competently catalyzes the reduction of aromatic and aliphatic aldehydes and ketones. AKR1B10 is widely expressed in numerous human tissues, small intestine, colon and adrenal gland. AKR1B10 is pathogenically involved in diabetic complications and is overexpressed in human tumors, such as liver, breast, and lung cancer, AKR1B10 is involved in the development and progression of cancer.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

AKR1B10 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 316 amino acids (1-316 a.a) and having a molecular mass of 36 kDa. The AKR1B10 is purified by proprietary chromatographic techniques.

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