

## AKR1B10 Human

**Description:**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.

Catalog #:ENPS-423

**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.

For research use only.

**Source:**Escherichia Coli.

**Physical Appearance:**Sterile Filtered clear colorless solution.

**Amino Acid Sequence:**MATFVELSTK AKMPIVGLGT WKSPLGKVKE AVKVAIDAGY  
RHIDCAYVYQ NEHEVGELAIQ EKIQEKAVKR EDLFIVSKLW PTFERPLVRKAFKTLKDL  
KLSYLDVYLI HWPQGFKSGD DLFPKDDKGN AIGGKATFLD AWEAMEELVD EGLVKALGVS  
NFSHFQIEKL LNKPLGKYKP VTNQVECHPY LTQEKLQYC HSKGITVAY SPLGSPDRPW  
AKPEDPSLLE DPK

**Purity:**Greater than 95.0% as determined by SDS-PAGE.

### Formulation:

The AKR1B10 solution contains 20mM Tris-HCl pH-8 and 10% glycerol.

### Stability:

AKR1B10 Recombinant Human although stable at 4°C for 30 days, should be stored desiccated below -20°C for periods greater than 30 days. Please avoid freeze-thaw cycles.

### Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

### 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.

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