

Recombinant Human AKR1B10

Cat. No. AKR1B10-27155TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human AKR1B10; amino acids 1-316, 36kDa.
Species	Human
Source	E.coli
ProteinLength	1-316 a.a.
Description	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.
Tissue specificity	Found in many tissues. Highly expressed in small intestine, colon and adrenal gland.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 20mM Tris HCl, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

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Sequences of amino acids

MATFVELSTK AKMPIVGLGT WKSPLGKVKE AVKVAIDAGY RHIDCAYVYQ
 NEHEVGELAIQ 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

Sequence Similarities

Belongs to the aldo/keto reductase family.

Full Length

Full L.

GENE INFORMATION
Gene Name

[AKR1B10 aldo-keto reductase family 1, member B10 \(aldose reductase\) \[Homo sapiens \]](#)

Official Symbol

[AKR1B10](#)

Synonyms

AKR1B10; aldo-keto reductase family 1, member B10 (aldose reductase); AKR1B11; aldo-keto reductase family 1 member B10; AKR1B12; aldo keto reductase family 1; member B11 (aldose reductase like); aldose reductase like 1; aldose reductase like peptide; aldo

Gene ID

[57016](#)

mRNA Refseq

[NM_020299](#)

Protein Refseq

[NP_064695](#)

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MIM	604707
Uniprot ID	O60218
Chromosome Location	7q33
Pathway	Butanoate metabolism, organism-specific biosystem; Butanoate metabolism, conserved biosystem; Fructose and mannose metabolism, organism-specific biosystem; Fructose and mannose metabolism, conserved biosystem; Linoleic acid metabolism, organism-specific biosystem;
Function	aldo-keto reductase (NADP) activity; oxidoreductase activity; protein binding;

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