AKR7L Blocking Peptide (N-Term) Blocking Peptide

PRODUCT OVERVIEW

Product Name	AKR7L, Blocking Peptide
Full Product Name	AKR7L Blocking Peptide (N-Term)
Product Gene Name	AKR7L blocking peptide
Product Synonym Gene Name	AFAR3; AKR7A4
Product Synonym Names	Aflatoxin B1 aldehyde reductase member 4; 1---; AFB1 aldehyde reductase 3; AFB1-AR 3; Aldoketoreductase 7-like; AKR7L; AFAR3; AKR7A4
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Specificity	The synthetic peptide sequence is selected from aa 32-44 of HUMAN AKR7L
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	AKR7L peptide (MBS9230100) is used for blocking the activity of AKR7L antibody (MBS9215639)
Molecular Weight	16,724 Da
OMIM	608478
Tissue Location	Mainly expressed in uterus.
Related Product Information for AKR7L blocking peptide	Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen (By similarity).
Other Notes	Small volumes of AKR7L blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for AKR7L purchase	MBS9230100 is a blocking peptide targeting AKR7L. Also known as AKR7L Blocking Peptide (N-Term).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKR7L. It may not necessarily be applicable to this product.

NCBI GI #	294862545
NCBI GeneID	246181
NCBI Accession #	Q8NHP1.6
UniProt Primary Accession #	Q8NHP1
UniProt Secondary Accession #	Q5U614
UniProt Related Accession #	Q8NHP1
NCBI Official Full Name	Aflatoxin B1 aldehyde reductase member 4
NCBI Official Synonym Full Names	aldo-keto reductase family 7 like (gene/pseudogene)
NCBI Official Symbol	AKR7L
NCBI Official Synonym Symbols	AFAR3; AKR7A4; AFB1-AR3

UniProt Protein Name	Aflatoxin B1 aldehyde reductase member 4
UniProt Synonym Protein Names	AFB1 aldehyde reductase 3; AFB1-AR 3; Aldoketoreductase 7-like
Protein Family	Aflatoxin B1 aldehyde reductase
UniProt Gene Name	AKR7L
UniProt Synonym Gene Names	AFAR3; AKR7A4; AFB1-AR 3
UniProt Entry Name	ARK74_HUMAN
NCBI Summary for AKR7L	This gene is one of three aldo-keto reductase genes that are present in a cluster on the p arm of chromosome 1. The encoded proteins are involved in the reduction of the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. It has been speculated that this family member encodes a selenoprotein, which includes a selenocysteine (Sec) residue in lieu of a UGA translational termination codon. However, there is no evidence that such a protein is produced in vivo. The alternative interpretation is that this family member is a duplicated pseudogene, and it is therefore represented as such in this Gene record. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2011]
UniProt Comments for AKR7L	AKR7A4: Can reduce the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. May be involved in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen. Belongs to the aldo/keto reductase family. Aldo/keto reductase 2 subfamily. 2 isoforms of the human protein are produced by alternative splicing. Protein type: EC 1.-.-.-; Oxidoreductase Chromosomal Location of Human Ortholog: 1p36.13|1p35-p36.1 Cellular Component: cytosol Molecular Function: aldo-keto reductase activity Biological Process: xenobiotic metabolic process
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/blocking-peptide/akr7l/9230100