# 1,5-Anhydro-D-Fructose Reductase (AKR1E2) Macaca Fascicularis Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | 1,5-anhydro-D-fructose reductase (AKR1E2), Recombinant Protein |
| **Full Product Name** | Recombinant Macaca fascicularis 1,5-anhydro-D-fructose reductase (AKR1E2) |
| **Product Gene Name** | AKR1E2 recombinant protein |
| **Product Synonym Gene Name** | AKR1E2 |
| **Sequence** | MGDIPAVGLS CWKASPGKVT EAVKVAIDAG YRHFNCAYFY HNEKEVGAGI RYKIKEGAVR REDLFIASKL WCTCHKKSLV KTACRRSLKA LKLNYLDLYL IHWPMGFKPP HPEWIMSCSE LSFCLSHPGV HDLPLDESDM VIPGDTDFLD TWEAMEDLVI TGLVKNIGVS NFNHEQLERL LNKPGLRFKP VTNQIECHPY LTQKNLISFC QSRGVSVTAY RPLGGSCEGV DLIDDPVIQR IAKEHSKSPA QILIRFQTQR NVIVIPGSIT PSHIKENIQV FDFELTQHDM DNILSLDRNL RLATFPITKN HKDYPFHIEY |
| **Host** | E Coli or Yeast or Baculovirus or Mammalian Cell |
| **Form/Format** | Lyophilized or liquid (Format to be determined during the manufacturing process) |
| **Purity/Purification** | Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific) |
| **Preparation and Storage** | Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended. |
| **Molecular Weight** | 36,418 Da |
| **Sequence Positions** | 1-320, Full length protein |
| **Tag Information** | This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information. |
| **Sterility** | Sterile filter available upon request. |
| **Endotoxin** | Low endotoxin available upon request. |
| **3D Structure** | ModBase 3D Structure for Q4R802 |
| **Species** | Macaca fascicularis (Crab-eating macaque) (Cynomolgus monkey) |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Related Product Information for AKR1E2 recombinant protein** | MBS1373517 is a recombinant protein targeting AKR1E2. Also known as Recombinant Macaca fascicularis 1,5-anhydro-D-fructose reductase (AKR1E2). Host: E Coli or Yeast or Baculovirus or Mammalian Cell. |
| **Other Notes** | Small volumes of AKR1E2 recombinant protein 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. |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for AKR1E2. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 545687696 |
| **NCBI GeneID** | 101925198 |
| **NCBI Accession #** | NP_001270572.1 |
| **UniProt Primary Accession #** | Q4R802 |

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| **UniProt Related Accession #** | Q4R802 |
| **GenBank Nucleotide #** | NM_001283643.1 |
| **NCBI Official Full Name** | 1,5-anhydro-D-fructose reductase |
| **NCBI Official Symbol** | AKR1E2 |
| **NCBI Official Synonym Symbols** | AKR1CL2 |
| **UniProt Protein Name** | 1,5-anhydro-D-fructose reductase |
| **UniProt Synonym Protein Names** | Aldo-keto reductase family 1 member C-like protein 2; Aldo-keto reductase family 1 member E2 |
| **Protein Family** | 1,5-anhydro-D-fructose reductase |
| **UniProt Gene Name** | AKR1E2 |
| **UniProt Synonym Gene Names** | AKR1CL2; AF reductase |
| **NCBI Protein Information** | 1,5-anhydro-D-fructose reductase |
| **UniProt Comments for AKR1E2** | Catalyzes the NADPH-dependent reduction of 1,5-anhydro-D-fructose (AF) to 1,5-anhydro-D-glucitol. |
| **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. |
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