

Datasheet for ABIN7552042

## AKR1E2 Protein (AA 1-320) (His tag)



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### Overview

Quantity:	1 mg
Target:	AKR1E2
Protein Characteristics:	AA 1-320
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKR1E2 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant AKR1E2 Protein expressed in mammalian cells.
Sequence:	<p>MGDIPAVGLS SWKASPGKVT EAVKEAIDAG YRHFDCAIFY HNEREVGAGI RCKIKEGAVR</p> <p>REDLFIATKL WCTCHKKSLV ETACRKS LKA LKLN YLDLYL IHWPMGFKPP HPEWIMSCSE</p> <p>LSFCLSHPRV QDLPLDESNM VIPSDTDFLD TWEAMEDLVI TGLVK NIGVS NFNHEQLERL</p> <p>LNKPGLRFPK LTNQIECHPY LTQKNLISFC QSRDVS VTAY RPLGGSCEGV DLIDNPVIKR</p> <p>IAKEHGKSPA QILIRFQIQR NVVIVPGSIT PSHIKENIQV FDFELTQHDM DNILSLNRNL</p> <p>RLAMFPITKN HKDYPFHIEY <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

## Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

## Target Details

Target:	AKR1E2
Alternative Name:	AKR1E2 ( <a href="#">AKR1E2 Products</a> )
Background:	1,5-anhydro-D-fructose reductase (AF reductase) (EC 1.1.1.263) (Aldo-keto reductase family 1 member C-like protein 2) (Aldo-keto reductase family 1 member E2) (LoopADR) (Testis aldo-keto reductase) (htAKR) (Testis-specific protein) (hTSP),FUNCTION: Catalyzes the NADPH-dependent reduction of 1,5-anhydro-D-fructose (AF) to 1,5-anhydro-D-glucitol (By similarity). Has low NADPH-dependent reductase activity towards 9,10-phenanthrenequinone (in vitro) (PubMed:12604216, PubMed:15118078). {ECO:0000250 UniProtKB:Q9DCT1, ECO:0000269 PubMed:12604216, ECO:0000269 PubMed:15118078}.
Molecular Weight:	36.6 kDa
UniProt:	<a href="#">Q96JD6</a>

## Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
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Application Details

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months