

## Recombinant Human AKR7A2, His-tagged

**Cat. No.** AKR7A2-26147TH    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human AKR7A2 fused to His tag at N-terminus; amino acids 1-359 , MWt 44kDa.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-359 a.a.
<b>Description</b>	The protein encoded by this gene belongs to the aldo/keto reductase (AKR) superfamily and AKR7 family, which are involved in the detoxification of aldehydes and ketones. The AKR7 family consists of 3 genes that are present in a cluster on the p arm of chromosome 1. This protein, thought to be localized in the golgi, catalyzes the NADPH-dependent reduction of succinic semialdehyde to the endogenous neuromodulator, gamma-hydroxybutyrate. It may also function as a detoxication enzyme in the reduction of aflatoxin B1 and 2-carboxybenzaldehyde.
<b>Conjugation</b>	HIS
<b>Tissue specificity</b>	Detected in brain, liver, small intestine and testis, and at lower levels in heart, prostate, skeletal muscle and spleen. Detected in kidney proximal and distal tubules, endothelial cells lining the Bowmans capsules and some cysts. Detected at low levels
<b>Form</b>	Liquid

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<b>Purity</b>	>90% by SDS-PAGE
<b>Storage buffer</b>	Preservative: None Constituents: 20% Glycerol, 20mM Tris HCl, 1mM DTT, pH 8.0
<b>Storage</b>	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Sequences of amino acids</b>	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM LSAASRVVSR AAVHCALRSP PPEARALAMS RPPPPRVASV LGTMEMGRRM DAPASAAAVR AFLERGHTEL DTAFMYSDGQ SETILGGLGL GLGGGDCRVK IATKANPWDG KSLKPDVSVRS QLETSLKRLQ CPQVDLFYLH APDHGTPVEE TLHACQRLHQ EGKFVELGLS NYASWEVAEI CTLCKSNGWI LPTVYQGMYN ATTRQVETEL FPCLRHFGLR FYAYNPLAGG LLTGKYKYED KDGKQPVGRF FGNSWAETYR NRFWKEHHFE AIALVEKALQ AAYGASAPSV TSAALRWMYH HSQLQGAHGD AVILGMSSLE QLEQNLAATE EGGLEPAVVD AFNQAWHLVA HECPNYFR
<b>Sequence Similarities</b>	Belongs to the aldo/keto reductase 2 family.
<b>Full Length</b>	Full L.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">AKR7A2 aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase) [ Homo sapiens ]</a>
<b>Official Symbol</b>	<a href="#">AKR7A2</a>
<b>Synonyms</b>	AKR7A2; aldo-keto reductase family 7, member A2 (aflatoxin aldehyde reductase); aflatoxin B1 aldehyde reductase member 2; AFAR;

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<b>Gene ID</b>	8574
<b>mRNA Refseq</b>	NM_003689
<b>Protein Refseq</b>	NP_003680
<b>MIM</b>	603418
<b>Uniprot ID</b>	O43488
<b>Chromosome Location</b>	1p36.13
<b>Pathway</b>	Metabolism of xenobiotics by cytochrome P450, organism-specific biosystem; Metabolism of xenobiotics by cytochrome P450, conserved biosystem;
<b>Function</b>	alditol:NADP+ 1-oxidoreductase activity; electron carrier activity; oxidoreductase activity; oxidoreductase activity, acting on the CH-OH group of donors, NAD or NADP as acceptor;

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