

## Recombinant Human AKR7A3, His-tagged

Cat. No. AKR7A3-26727TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length Human AKR7A3 with a N terminal His tag. 370 amino acids with a predicted MWt 41.6 kDa including tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	331 amino acids
<b>Description</b>	Aldo-keto reductases, such as AKR7A3, are involved in the detoxification of aldehydes and ketones.
<b>Conjugation</b>	HIS
<b>Molecular Weight</b>	41.600kDa inclusive of tags
<b>Tissue specificity</b>	Expressed in colon, kidney, liver, pancreas, adenocarcinoma and endometrium.
<b>Biological activity</b>	Specific activity: approximately
<b>Form</b>	Liquid
<b>Purity</b>	>95% by SDS-PAGE
<b>Storage buffer</b>	pH: 8.00 Constituents: 0.32% Tris HCl, 0.58% Sodium chloride, 10% Glycerol

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<b>Storage</b>	Please see Notes section
<b>Sequences of amino acids</b>	<p>MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM SRQLSRARPA  TVLGAMEMGR RMDAP TSAAV TRAFLE RGH T EIDTAFVYSE GQSETILGGL  GLRLGGSDCR VKIDTKAIPL FGNSLKPDSL RFQLETSLKR LQCPRVDLFY  LHMPDHSTPV EETLRACHQL HQEGKFVELG LSNYA AWEVA EICTLCKSNG  WILPTVYQGM YNAITRQVET ELFPCLR HFG LRFYAFNPLA GLLTGKYKY  EDKDGKQPVG RFFGNTWAEM YRNR YWKEHH FEGIALVEKA LQAAYGASAP  SMTSATLRWM YHHSQLQGAH GDAVILGMSS LEQLEQNLAA AEEGPLEPAV  VDAFNQAWHL VAHECPNYFR</p>
<b>Sequence Similarities</b>	Belongs to the aldo/keto reductase 2 family.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">AKR7A3</a> aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase) [ <a href="#">Homo sapiens</a> ]
<b>Official Symbol</b>	<a href="#">AKR7A3</a>
<b>Synonyms</b>	AKR7A3; aldo-keto reductase family 7, member A3 (aflatoxin aldehyde reductase); aflatoxin B1 aldehyde reductase member 3;
<b>Gene ID</b>	<a href="#">22977</a>
<b>mRNA Refseq</b>	<a href="#">NM_012067</a>
<b>Protein Refseq</b>	<a href="#">NP_036199</a>
<b>MIM</b>	<a href="#">608477</a>

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<b>Uniprot ID</b>	O95154
<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>	aldo-keto reductase (NADP) activity; electron carrier activity; oxidoreductase activity;

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