

Active Recombinant Full Length human AKR7A3 protein, Tag Free

Cat. No. AKR7A3-26150TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Full Length human AKR7A3 protein, Tag Free, expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-331aa
Description	Aldo-keto reductase family 7, member A 3, also known as AKR7A3, is a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. This member includes a number of related monomeric NADPH-dependent oxidoreductases, such as aldehyde reductase, aldose reductase, prostaglandin F synthase, xylose reductase, rho crystallin, and many others. AKR7A3 is involved in the detoxification of aldehydes and ketones. The activity of AKR7A3 may detoxify the aflatoxin B1 (AFB1) dialdehyde, which reacts with proteins, and thereby inhibits AFB 1 induced toxicity. Recombinant human AKR7A3 was expressed in E. coli and purified by using conventional chromatography techniques.
Tag	Non
Bio-activity	Specific activity is > 800pmol/min/ug, and is defined as the amount of enzyme that catalyze the reduction 1.0pmole of 1,2-Naphthoquinone presence of NADPH per minute at pH 7.0 at 25C.

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Molecular Mass	37.7 kDa
AA Sequence	MSRQLSRARP ATVLGAMEMG RRMDAPTSAA VTRAFLEIGH TEIDTAFVYS EGQSETILGG LGLRLGGSDC RVKIDTKAIP LFGNSLKPDS LRFQLETSK RLQCPRVDLF YLHMPDHSTP VEETLRACHQ LHQEGKFVEL GLSNYAWEV AEICTLCKSN GWILPTVYQG MYNAITRQVE TELFPCLRHF GLRFYAFNPL AGLLTGKYY YEDKDGKQPV GRFFGNTWAE MYRNRYWKEH HFEGIALVEK ALQAAYGASA PSMTSATLRW MYHHSQLQGA HGDAVILGMS SLEQLEQNLA AAEEGPLEPA VVDAFNQAWH LVAHECPNYF R
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
Storage Buffer	Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 10% glycerol
GenID	22977
References	Ahmed MM., et al. (2011) Hepatology. 54(4):1322-32. Bodreddiqari S., et al. (2008) Chem Res Toxicol. 21(5):1134-42.

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GENE INFORMATION

Gene Name AKR7A3 aldo-keto reductase family 7 member A3 [Homo sapiens (human)]

Official Symbol AKR7A3

Synonyms Aldo-keto reductase family 7 member A 3, Aflatoxin B1 aldehyde reductase member 3, AFB1 aldehyde reductase 2(AFAR2), AFB1 AR 2, Aflatoxin aldehyde reductase, Aflatoxin B1 aldehyde reductase 2, AKR7A3

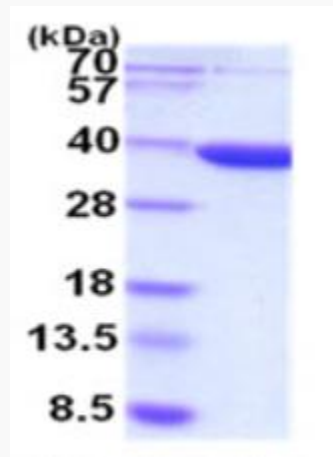
mRNA Refseq NM_012067

Protein Refseq NP_036199

MIM 608477

UniProt ID O95154

3ug by SDS-PAGE
under reducing
condition and
visualized by
coomassie blue
stain.



15% SDS-PAGE(3ug)

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