

## AKR7A3 Human

**Description:** AKR7A3 Human Recombinant fused to 39 amino acid His Tag at N-terminal produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 370 amino acids (1-331 a.a.) and having a molecular mass of 41.6 kDa. The AKR7A3 is purified by proprietary chromatographic techniques.

**Catalog #:** ENPS-491

For research use only.

**Synonyms:** AFAR2, Aflatoxin B1 aldehyde reductase member 3, AFB1 aldehyde reductase 2, AFB1-AR 2, AKR7A3.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered clear colorless solution.

**Amino Acid Sequence:** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM  
SRQLSRARPA TVLGAMEMGR RMDAPTSAAV TRAFLEGRGHEIDTAFVYSE GQSETILGGL  
GLRLGGSDCR VKIDTKAIPF FGNSLKPDSL RFQLETSKLR LQCPRVDLFY LHMPDHSTPV  
EETLRACHQL HQEGKFVELG LSNYAAWEVA EICTLCKSNG WILPTVYQGM YNAITRQVET  
ELFPCLRHFG LRF

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

The AKR7A3 solution contains 20mM Tris-HCl pH-8, 0.1M NaCl and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

AKR7A3, takes part in the detoxification of aldehydes and ketones. AKR7A3 reduces the dialdehyde protein-binding form of aflatoxin B1 (AFB1) to the non-binding AFB1 dialcohol. AKR7A3 participates in protection of liver against the toxic and carcinogenic effects of AFB1, a potent hepatocarcinogen.

**Biological Activity:**

Specific activity: approximately  
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