

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 VKIDTKAIPL 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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