

Aldo-Keto Reductase Family 7 Member A3 Human Recombinant

Item Number	rAP-1789
Synonyms	AFAR2, Aflatoxin B1 aldehyde reductase member 3, AFB1 aldehyde reductase 2, AFB1-AR 2, AKR7A3.
Description	AKR7A3 Human Recombinant fused to a 39 amino acids 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.
Uniprot Accesion Number	O95154
Amino Acid Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSELEM SRQLSRARPA TVLGAMEMGR RMDAP TSAAV TRAFLE RGH T EIDTAFVYSE GQSETILGGL GLRLGGSDCR VKIDTKAIPL FGNSLKPDSL RFQLETSLKR LQCPRVDLFY LHMPDHSTPV EETLRACHQL HQEGKFVELG LSNYAWEVA EICTLCK- SNG WILPTVYQGM YNAITRQVET ELFPCLRHFG LRFYAFNPLA GGLLTGKYKY EDKDGKQPVG RFFGNTWAEM YRNRYWKEHH FEGIALVEKA LQAAYGASAP SMTSATLRWM YHHSQLQGAH GDAVILGMSS LEQLEQNLA AEEGPLEPAV VDAFNQAWHL VAHECPNYFR.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered clear colorless solution. 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.
Formulation and Purity	The AKR7A3 solution contains 20mM Tris-HCl pH-8, 0.1M NaCl and 10% glycerol. Greater than 95.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity: approximately Enzymatic activity was confirmed by measuring the amount of enzyme catalyzing the oxidation of 1 micromole NADPH per minute at 25C. Specific activity was expressed as units/mg protein.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**