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## Product Data Sheet

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Product Name: AKR1A1 Human

Cat. No.: GP21373

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Alcohol dehydrogenase; ALR; ARM; DD3; ALDR1; MGC1380; MGC12529; AKR1A1; Alcohol dehydrogenase [NADP+]; Aldehyde reductase; Aldo-keto reductase family 1 member A1.		
Amino Acid Sequence	MAASCVLLHT GQKMPLIGLG TWKSEPGQVK AAVKYALSVG YRHIDCAAIY GNEPEIGEAL KEDVGPGKAV PREELFVTSK LWNTKHHPED VEPALRKTLDLQLEYLDLY LMHWPYAFER GDNPFKPNAD GTICYDSTHY KETWKALEAL VAKGLVQALG LSNFNSRQID DILSVASVRP AVLQVECHPY LAQNELIAHC QARGLEVTAY SPLGSSDRAW RDPDEPVLE PVVLALAEKY GRSPAQILL RWQVQRKVIC IPKSITPSRI LQNIKVFDFE FSPEEMKQLN ALNKNWRYIV PMLTVDGKRV PRDAGHPLYP FNDPY.		
Formulation	AKR1A1 solution containing 20mM Tris pH-8, 50mM NaCl and 10% glycerol.		

**Introduction**

AKR1A1 is part of the aldo/keto reductase superfamily, it catalyzes the NADPH-dependent reduction from a range of aromatic and aliphatic aldehydes to their related alcohols. AKR1A1 corresponds (65% identity) to aldose reductase, an enzyme that takes part in the pathogenesis of some diabetic and galactosemic complications. AKR1A1 is involved in the activation of procarcinogens, such as polycyclic aromatic hydrocarbon trans-dihydrodiols, and in the metabolism of various xenobiotics and drugs.

**Stability**

AKR1A1 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C . Please prevent freeze thaw cycles.

**Background**

**Caution: Product has not been fully validated for medical applications. For research use only.**

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AKR1A1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 325 amino acids (1-325 a.a.) and having a molecular mass of 36.5 kDa. AKR1A1 is purified by proprietary chromatographic techniques.

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