

Aldo-Keto Reductase Family 1 Member A1 Recombinant Protein | AKR1A1 recombinant protein

Recombinant Human Aldo-Keto Reductase Family 1 Member A1

CATALOG # AAA38705	HOST Escherichia Coli.
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PRODUCT SYNONYMS

Aldo-Keto Reductase Family 1 Member A1; Recombinant Human Aldo-Keto Reductase Family 1 Member A1; AKR1A1 Human; Aldo-Keto Reductase Family 1 Member A1 Human Recombinant; Alcohol dehydrogenase; ALR; ARM; DD3; ALDR1; MGC1380; MGC12529; AKR1A1; Alcohol dehydrogenase [NADP+]; Aldehyde reductase; Aldo-keto reductase family 1 member A1; AKR1A1 recombinant protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli.
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Form/Format	1mg/ml solution containing 20mM Tris pH-8, 50mM NaCl and 10% glycerol.
Sequence	MAASCVLLHT GQKMPLIGLG TWKSEPGQVK AAVKYALSVG YRHIDCAAIY GNEPEIGEAL KEDVGP GKAV PREELFVTSK LWNTKHHPED VEPALRKTLA DLQLEYLDLY LMHWPYAFER GDNPPFPKNAD GTICYDSTHY KETWKALEAL VAKGLVQALG LSNFNSRQID DILSVASVRP AVLQVECHPY LAQNELIAHC QARGLEV TAY SPLGSSDRAW RDPDEPVLE PVVLALAEKY GRSPAQILLR WQVQRKVICI PKSITPSRIL QNIKVFDFTF SPEEMKQLNA LNKNWRYIVP MLTVDGKRVP RDAGHPLYPF NDPY
Sequence Length	325
Physical Appearance	Sterile filtered colorless solution.
Preparation and Storage	AKR1A1 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for AKR1A1 recombinant protein	Description: 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. 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, including the anthracyclines doxorubicin and daunorubicin.
Product Categories/Family for AKR1A1 recombinant protein	Enzymes; Reductase

NCBI AND UNIPROT INFORMATION

NCBI GI #	320202988
NCBI GeneID	10327
NCBI Accession #	NP_001189342.1

NCBI GenBank Nucleotide #	NM_001202413.1
UniProt Accession #	P14550 ; Q6IAZ4 ; A8KAL8 ; D3DQ04
NCBI Official Full Name	alcohol dehydrogenase
NCBI Official Synonym Full Names	aldo-keto reductase family 1, member A1 (aldehyde reductase)
NCBI Official Symbol	AKR1A1
NCBI Official Synonym Symbols	ALR; ARM; DD3; ALDR1; HEL-S-6
NCBI Protein Information	alcohol dehydrogenase [NADP(+)]; alcohol dehydrogenase [NADP(+)]; HEL-S-165mP; aldehyde reductase; aldo-keto reductase family 1 member A1; dihydrodiol dehydrogenase 3; epididymis secretory protein Li 6; epididymis secretory sperm binding protein Li 165mP
UniProt Protein Name	Alcohol dehydrogenase [NADP(+)]
UniProt Gene Name	AKR1A1
UniProt Synonym Gene Names	ALDR1; ALR
UniProt Entry Name	AK1A1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/akr1a1-recombinant-protein-escherichia-coli/38705>