

32-2132: AKR1A1 Recombinant Protein

Alternative Name : Alcohol dehydrogenase,ALR,ARM,DD3,ALDR1,MGC1380,MGC12529,AKR1A1,Alcohol dehydrogenase [NADP+],Aldehyde reductase,Aldo-keto reductase family 1 member A1.

Description

Source : Escherichia Coli. 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. 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 Info

Amount : 20 µg
Purification : Greater than 90% as determined by SDS-PAGE.
Content : AKR1A1 solution containing 20mM Tris pH-8, 50mM NaCl and 10% glycerol.
Storage condition : AKR1A1 Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C. Please prevent freeze thaw cycles.
Amino Acid : MAASCVLLHT GQKMPLIGLG TWKSEPGQVK AAVKYALSVG YRHIDCAAIY GNEPEIGEAL KEDVGPGKAV PREELFVTSK LWNTKHHPED VEPALRKTLDLQLEYLDLY LMHWPYAFER GDNPFKPNAD GTICYDSTHY KETWKALEAL VAKGLVQALG LSNFNSRQID DILSVASVRP AVLQVECHPY LAQNELIAHC QARGLEV TAY SPLGSSDRAW RDPDEPVLE PVVLALAEKY GRSPAQILL RWQVQRKVIC IPKSITPSRI LQNIKVFDF T FSPEEMKQLN ALNKNWRYIV PMLTVDGKRV PRDAGHPLY P FNDPY.

