

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 GQKMPILGLG TWKSEPGQVK AAVKYALSVG YRHIDCAAIY GNEPEIGEAL
KEDVGPGKAV PREELFVTSK LWNTKHHPED VEPALRKT LA DLQLEYLDLY LMHWPYAFER
GDNFPK NAD GTICYDSTHY KETWKALEAL VAKGLVQALG LSNFNSRQID DILSVASVRP
AVLQVECHPY LAQNELIAHC QARGLEVTAY SPLGSSDRAW RDPDEPV LLE PVVLALAEKY
GRSPAQILL RWQVQRKVIC IPKSITPSRI LQNIKVFDF T FSPEEMKQLN ALNKNWRYIV
PMLTVDGKRV PRDAGHPLYP FNDPY.

