

Aldo-Keto Reductase Family 1 Member C4 Human Recombinant

Item Number	rAP-1767
Synonyms	Aldo-keto reductase family 1 member C4 (chlordecone reductase 3-alpha hydroxysteroid dehydrogenase type I dihydrodiol dehydrogenase 4), 3-alpha-hydroxysteroid dehydrogenase type I, MGC22581, HAKRA, 3 alpha-hydroxysteroid dehydrogenase/dihydrodiol dehydrog
Description	AKR1C4 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 343 amino acids (1-323) and having a molecular mass of 39.2 kDa. The AKR1C4 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.
Uniprot Accession Number	P17516
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDPKYQRVEL NDGHFMPVLG FGTYAPPEVP RNRAVEVTKL AIEAG-FRHID SAYLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLWCTFF QPQMVPAL E SSLKKLQLDY VDLYLLHFPM ALKPGETPLP KDENGKVI FD TVDLSATWEV MEKCKDAGLAKSIGVSNFNC RQLEMILNKP GLKYKPCNQ VECHPYLNQS KLLDFCKSKD IVLVAHSALG TQRHKLWVDP NSPVLLEDPV L CALAKKHKR TPALIALRYQ LQRGVVVLAK SYNEQRIREN IQVFEFQLTS EDMKVL DGLN RNYRYVVMDF LMDHPDY PFS DEY.
Source	Escherichia Coli.
Physical Appearance and Stability	AKR1C4 is supplied as a sterile filtered clear 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	AKR1C4 protein 1mg/ml is supplied in 20mM Tris-HCl, pH-8, 0.1M NaCl, 1mM DTT and 20% Glycerol. Greater than 90.0% as determined by SDS-PAGE.
Application	
Solubility	
Biological Activity	Specific activity is > 700 pmol/min/ug, and is defined as the amount of enzyme that catalyze the oxidation of 1.0 pmole 1-Acenaphthenol in the presence of NADP per minute at pH 8.8 at 25°C.
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**