

AKR1C4 Human

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.

Catalog #: ENPS-152

For research use only.

Synonyms: Aldo-keto reductase family 1 member C4 (chlordecone reductase 3- α hydroxysteroid dehydrogenase type I dihydrodiol dehydrogenase 4), 3- α -hydroxysteroid dehydrogenase type I, MGC22581, HAKRA, 3 α -hydroxysteroid dehydrogenase/dihydrodiol dehydrog

Source: Escherichia Coli.

Physical Appearance: AKR1C4 is supplied as a sterile filtered clear solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MDPKYQRVEL NDGHFMPVLG
FGTYAPPEVP RNRAVEVTKL AIEAGFRHID SAYLYNNEEQ VGLAIRSKIA DGSVKREDIF
YTSKLWCTFF QPQMVQPALE SSLKKLQLDY VDLYLLHFPM ALKPGETPLP KDENGKIVFD
TVDLSATWEV MEKCKDAGLAKSIGVSNFNC RQLEMILNKP GLKYKPCVNQ VECHPYLNQS
KLLDFCKSKD IVL

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

AKR1C4 protein 1mg/ml is supplied in 20mM Tris-HCL, pH-8, 0.1M NaCl, 1mM DTT and 20% Glycerol.

Stability:

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:

AKR1C4 is a member of the aldo/keto reductase superfamily that has over 40 known enzymes and proteins. AKR1C4 enables the conversion of aldehydes and ketones to their corresponding alcohols by using NADH and/or NADPH as cofactors. AKR1C4 takes part in the bioreduction of chlordecone, a toxic organochlorine pesticide, to chlordecone alcohol in liver.

Biological Activity:

Specific activity: approximately \geq 0.6 units/mg. Enzymatic activity was confirmed by measuring the amount of enzyme catalyzing the oxidation of 1 micromole NADPH per minute at 25°C. Specific activity was expressed as units/mg protein.

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