

RPPB5794

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## Product Information    Protein Information

**Product SKU:**

RPPB5794

**Accession:**

Q04828

**Host:**

Escherichia Coli.

**Protein description:**

AKR1C1 Human Recombinant fused to a 20 amino acid His Tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 343 amino acids (1-323 a.a.) and having a molecular mass of 38.9 kDa. The AKR1C1 is fused to a 20 a.a. His Tag at n-terminal and purified by proprietary chromatographic techniques.

**Appearance:**

Sterile Filtered clear colorless solution.

**Synonyms:**

DDH1, DDH, HAKRC, 20-alpha-HSD, DD1/DD2, HBAB, C9, DD1, H-37, MBAB, MGC8954, 2-ALPHA-HSD, AKR1C1, Aldo-keto reductase family 1 member C1, 20-alpha-hydroxysteroid dehydrogenase, Trans-1,2-dihydrobenzene-1,2-diol dehydrogenase, Indanol dehydrogenase, Dihydrodiol dehydrogenase 1/2, Chlordecone reductase homolog HAKRC, High-affinity hepatic bile acid-binding protein.

**Formulation:**

The AKR1C1 protein solution (0.5mg/ml) contains 20mM Tris-HCl pH-8, 1mM DTT and 20% glycerol.

**Purity:**

Greater than 90% as determined by SDS-PAGE.

**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.

**Amino Acid Sequence:**

MGSSHHHHHH SSSLVPRGSH MDSKYQCVKL NDGHFMPVLG FGTYAPAEVP KSKALEATKL AIEAGFRHID  
SAHLYNNEEQ VGLAIRSKIA DGSVKREDIF YTSKLCWNSH RPELVRPALE RSLKNLQLDY VDLYLIHFPV  
SVKPGEEVIP KDENGKILFD TVDLCATWEA VEKCKDAGLA KSIGVSNFNR RQLEMILNKP GLKYKPCVNCQ  
VECHPYFNQR KLLDFCKSKD IVLVAYSALG SHREEPWVDP NSPVLLEDPV LCALAKKHKR TPALIALRYQ  
LQRGVVVLAK SYNEQRIRQN VQVFEFQLTS EEMKAIDGLN RNVRYLTLDI FAGPPNYPFS DEY.

**Biological Activity:**

Specific activity is > 500 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.