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AR52019PU-S Human AKR1D1 / SRD5B1 (1-326) - Purified

Alternate names: 3-oxo-5-beta-steroid 4-dehydrogenase, Aldo-keto reductase family 1 member D1, Delta(4)-3-ketosteroid 5-beta-reductase, Delta(4)-3-oxosteroid 5-beta-reductase

Quantity: 50 µg

Concentration: 1.0 mg/ml (determined by absorbance at 280nm)

Background: AKR1D1 also known as 3-oxo-5beta-steroid 4-deghydrogese isoform 1, is a member of the AKR superfamily. The AKR family of proteins are soluble DPH oxidoreductases. They play important roles in the metabolism of drugs, carcinogens and reactive aldehydes. AKR1D1 is responsible for the catalysis of the 5-betareduction of bile acid intermediates and steroid hormones which carry a delta (4)-3-one structure. AKR1D1 is highly expressed in liver, colon and testis. Deficiency of this enzyme may contribute to hepatic dysfunction. Recombint AKR1D1 protein was expressed in E.coli and purified by using conventiol chromatography techniques.

Uniprot ID: P51857

NCBI: NP_005980

Species: Human

Source: E. coli

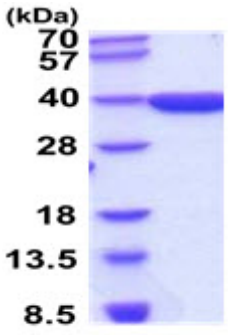
Format:
State: Liquid purified protein
Purity: >95% by SDS - PAGE
Buffer System: 20 mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 0.1M NaCl, 10% glycerol.
Endotoxin Level: < 1.0 EU per 1 microgram of protein (determined by LAL method)

Description:
AA Sequence:
MDLSAASHRI PLSDGNSIPI IGLGTYSEPK STPKGACATS VKVAIDTGYR HIDGAYIYQN
EHEVGEAIRE KIAEGKVRRE DIFYCGKLWA TNHVPEMVRP TLERTLRVLQ LDYVDLYIIE
VPMAFKPGDE IYPRDENGKW LYHKSNLCAT WEAMEACKDA GLVKSLGVSN FNRRQLELIL
NKPGLKHKPV SNQVECHPYF TQPKLLKFCQ QHDIVITAYS PLGTSRNPIW VNVSSPPLLK
DALLNSLGKR YNKTAAQIVL RFNIQRGVVV IPKSFNLERI KENFQIFDFS LTEEEMKDIE
ALNKNVRFVE LLMWRDHPEY PFHDEY
Molecular weight: 37.3 kDa (326aa)

Storage: Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: Moore S A., et al. (1995) J Mol Biol. 249(1):195-214 Gould S J., et al. (1988) Anal Biochem. 175(1):5-13

Pictures:



15% SDS-PAGE (3ug)