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Recombinant human Aldo-keto reductase 1D1/AKR1D1 protein

Catalog Number: ATGP3292

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-326aa

UniProt No.

P51857

NCBI Accession No.

NP 005980

Alternative Names

Aldo-keto reductase family 1 member D1, SRD5B1, Delta 4-3-ketosteroid-5-beta-reductase

PRODUCT SPECIFICATION

Molecular Weight

37.3 kDa (326aa)

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 1mM DTT, 0.1M NaCl, 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

Non-Tagged

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

AKR1D1 also known as 3-oxo-5beta-steroid 4-deghydrogenase isoform 1, is a member of the AKR superfamily. The AKR family of proteins are soluble NADPH 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



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liver, colon and testis. Deficiency of this enzyme may contribute to hepatic dysfunction. Recombinant AKR1D1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

Amino acid Sequence

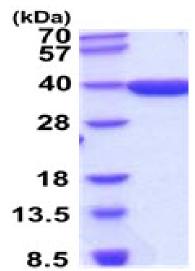
MDLSAASHRI PLSDGNSIPI IGLGTYSEPK STPKGACATS VKVAIDTGYR HIDGAYIYQN EHEVGEAIRE KIAEGKVRRE DIFYCGKLWA TNHVPEMVRP TLERTLRVLQ LDYVDLYIIE VPMAFKPGDE IYPRDENGKW LYHKSNLCAT WEAMEACKDA GLVKSLGVSN FNRRQLELIL NKPGLKHKPV SNQVECHPYF TQPKLLKFCQ QHDIVITAYS PLGTSRNPIW VNVSSPPLLK DALLNSLGKR YNKTAAQIVL RFNIQRGVVV IPKSFNLERI KENFQIFDFS LTEEEMKDIE ALNKNVRFVE LLMWRDHPEY PFHDEY

General References

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

DATA





3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)