AKR1D1 cDNA

Catalog Number: ATGD0024

PRODUCT INFORMATION

Catalog number
ATGD0024

Product type
cDNA

Species
Human

NCBI Accession No.
NP_005980.1

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

mRNA Refseq
NM_005989.3

OMIM
604741

Chromosome location
7q32-q33

PRODUCT SPECIFICATION

Formulation
Lyophilized

Storage
Store the plasmid at -20C.

cDNA Size
981bp

Preparation before usage
1. Centrifuge at 7000rpm for 1 minute.
2. Carefully open the vial and add 100ul of sterile water to dissolve the DNA.
Each tube contains approximately 10ug of lyophilized plasmid.

Vector description
This shuttle vector contains the complete ORF. It is inseted BamH I to Xho I. The gene insert contains multiple cloning sites which can be used to easily cut and transfer the gene and recombination site into your expression vector.

Cloning Vector
pATGen (puc19-derived cloning vector)

General Description

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Aldo-keto reductase family 1, member D1, also known as AKR1D1, 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-beta-reduction 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.

DATA

Sequence nucleotides

ATGGATCTCA GTGCTGCAAG TCACCGCATA CCTCTAAGTG ATGGAAACAG CATTCCCATC ATCGGACTTG
GTACCTACTC AGAACCTAAA TCGACCCCTA AGGGAGCCTG TGCAACATCG GTGAAGGTTG CTATTGACAC
AGGGTACCGA CATATTGATG GGGCCTACAT CTACCAAAAT GAACACGAAG TTGGGGAGGC CATCAGGGAG
AAGATAGCAG AAGGAAAGGT GCGGAGGGAA GATATCTTCT ACTGTGGAAA GCTATGGGCT ACAAATCATG
TCCCAGAGAT GGTCCGCCCA ACCCTGGAGA GGACACTCAG GGTCCTCCAG CTAGATTATG TGGATCTTTA
CATCATTGAA GTACCCATGG CCTTTAAGCC AGGAGATGAA ATATACCCTA GAGATGAGAA TGGCAAATGG
TTATATCACA AGTCAAATCT GTGTGCCACT TGGGAGGCGA TGGAAGCTTG CAAAGACGCT GGCTTGGTGA
AATCCCTGGG AGTGTCCAAT TTTAACCGCA GGCAGCTGGA GCTCATCCTG AACAAGCCAG GACTCAAACA
CAAGCCAGTC AGCAACCAGG TTGAGTGCCA TCCGTATTTC ACCCAGCCAA AACTCTTGAA ATTTTGCCAA
CAACATGACA TTGTCATTAC TGCATATAGC CCTTTGGGGA CCAGTAGGAA TCCAATCTGG GTGAATGTTT
CTTCTCCACC TTTGTTAAAG GATGCACTTC TAAACTCATT GGGGAAAAGG TACAATAAGA CAGCAGCTCA
AATTGTTTTG CGTTTCAACA TCCAGCGAGG GGTGGTTGTC ATTCCTAAAA GCTTTAATCT TGAAAGGATC
AAAGAAAATT TTCAGATCTT TGACTTTTCT CTCACTGAAG AAGAAATGAA GGACATTGAA GCCTTGAATA
AAAATGTCCG CTTTGTAGAA TTGCTCATGT GGCGCGATCA TCCTGAATAC CCATTTCATG ATGAATACTG A

Transaction 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