10320 Camino Santa Fe, Suite G
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AKR1D1 Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP16670c

Specification

AKR1D1 Antibody (Center) Blocking Peptide - Product Information

Primary Accession P51857

AKR1D1 Antibody (Center) Blocking Peptide - Additional Information

Gene ID 6718

Other 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, AKR1D1, SRD5B1

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

AKR1D1 Antibody (Center) Blocking Peptide - Protein Information

Name AKR1D1

Synonyms SRD5B1

Function
Catalyzes the stereospecific NADPH-dependent reduction of the C4-C5 double bond of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure to yield an A/B cis-ring junction. This cis-configuration is crucial for bile acid biosynthesis and plays important roles in steroid metabolism. Capable of reducing a broad range of delta-(4)-3-ketosteroids from C18 (such as, 17beta- hydroxyestr-4-en-3-one) to C27 (such as, 7alpha-hydroxycholest-4-en-3- one).

Cellular Location
Cytoplasm.

Tissue Location
Highly expressed in liver. Expressed in testis and weakly in colon.

AKR1D1 Antibody (Center) Blocking Peptide - Protocols

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Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

AKR1D1 Antibody (Center) Blocking Peptide - Images

AKR1D1 Antibody (Center) Blocking Peptide - Background

The enzyme encoded by this gene is responsible for thecatalysis of the 5-beta-reduction of bile acid intermediates andsteroid hormones carrying a delta(4)-3-one structure. Deficiency ofthis enzyme may contribute to hepatic dysfunction. Three transcriptvariants encoding different isoforms have been found for this gene.Other variants may be present, but their full-length natures havenot been determined yet.

AKR1D1 Antibody (Center) Blocking Peptide - References

Steen, N.E., et al. Prog. Neuropsychopharmacol. Biol. Psychiatry (2010) In press :Drury, J.E., et al. J. Biol. Chem. 285(32):24529-24537(2010)Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Ueki, I., et al. J. Gastroenterol. Hepatol. 24(5):776-785(2009)Panagopoulos, I., et al. Oncol. Rep. 21(3):615-624(2009)