9853 Pacific Heights Blvd.
Suite D. San Diego,
CA 92121, USA
Tel: 858-263-4982
Email: info@abeomics.com

32-6656: AKR1D1 Human

Alternative Name :	3-oxo-5-beta-steroid 4-dehydrogenase, Aldo-Keto Reductase Family 1, Member D1, SRD5B1, Delta(4)-3-Ketosteroid 5-Beta-Reductase, Delta 4-3-Ketosteroid-5-Beta-Reductase, Delta(4)-3-Oxosteroid 5-Beta-Reductase, CBAS2, Steroid-5-Beta-Reductase, Beta Polypeptide 1 (3-Oxo-5 Beta-Steroid Delta 4-Dehydrogenase Beta 1), Aldo-Keto Reductase Family 1, Member D1 (Delta 4-3-Ketosteroid-5-Beta-Reductase), Aldo-Keto Reductase Family 1 Member D1, 3-Oxo-5-Beta-Steroid 4-Dehydrogenase, EC 1.3.1.3, 3o5bred.

Description

Source: Escherichia Coli.
Sterile filtered colorless solution.
Aldo-keto reductase family 1 member D1 (AKR1D1) belongs to the AKR superfamily. The AKR family proteins are soluble NADPH oxidoreductases, which have vital roles in the metabolism of drugs, carcinogens and reactive aldehydes. AKR1D1 is also responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones that carry a delta (4)-3-1 structure. AKR1D1 is highly expressed in the liver, colon and testis. Deficiency of the AKR1D1 enzyme may contribute to hepatic dysfunction.
AKR1D1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 326 amino acids (1-326 a.a.) and having a molecular mass of 37.3kDa. The AKR1D1 is purified by proprietary chromatographic techniques.

Product Info

Amount :	2 µg / 10 µg
Purification :	Greater than 95.0% as determined by SDS-PAGE.
Content :	The AKR1D1 protein solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.5), 1mM DTT, 0.1M NaCl and 10% glycerol.
Storage condition :	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 :	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.

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