

Recombinant Full Length Human AKR1D1 Protein, GST-tagged

Cat. No. AKR1D1-1375HF **Lot. No.** (See product label)

SPECIFICATION

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| Product Overview | Human AKR1D1 full-length ORF (NP_005980.1, 1 a.a. - 326 a.a.) recombinant protein with GST-tag at N-terminal. |
| Species | Human |
| Source | In Vitro Cell Free System |
| ProteinLength | 326 amino acids |
| Description | The enzyme encoded by this gene is responsible for the catalysis of the 5-beta-reduction of bile acid intermediates and steroid hormones carrying a delta(4)-3-one structure. Deficiency of this enzyme may contribute to hepatic dysfunction. Three transcript variants encoding different isoforms have been found for this gene. Other variants may be present, but their full-length natures have not been determined yet. [provided by RefSeq, Jul 2010] |
| Molecular Mass | 63.8 kDa |
| AA Sequence | <p>MDLSAASHRI PLSDGNSIPI IGLGTYSEPK STPKGACATS VKVAIDTGYR HIDGAYIYQN EHEVGEAIRE KIAEGKVRRE DIFYCGKLWA TNHVPPEMVRP TLERTLRVLQ LDYVDLYIIE VPMAFKPGDE IYPRDENGKW LYHKSNLNLCAT WEAMEACKDA GLVKSLGVSF FNRRQLELIL NKPGLKHKPV SNQVECHPYF TQPKLLKFCQ QHDIVITAYS PLGTSRNPW VNVSSPPLLK DALLNSLGKR YNKTAQIVL RFNIQRGVVV IPKSFNLERI KENFQIFDFS LTEEEMKDIE ALNKNVRFVE LLMWRDHPEY PFHDEY</p> |

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| Applications | Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array |
| Storage | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| Storage Buffer | 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer. |
| GENE INFORMATION | |
| Gene Name | AKR1D1 aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase) [Homo sapiens] |
| Official Symbol | AKR1D1 |
| Synonyms | AKR1D1; aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase); SRD5B1; 3-oxo-5-beta-steroid 4-dehydrogenase; delta(4)-3-oxosteroid 5-beta-reductase; delta(4)-3-ketosteroid 5-beta-reductase; steroid-5-beta-reductase, beta polypeptide 1 (3-oxo-5 beta-steroid delta 4-dehydrogenase beta 1); CBAS2; 3o5bred |
| Gene ID | 6718 |
| mRNA Refseq | NM_001190906 |
| Protein Refseq | NP_001177835 |
| MIM | 604741 |
| UniProt ID | P51857 |

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