

Recombinant Human AKR1D1 Protein, GST-tagged

Cat. No. AKR1D1-417H Lot. No. (See product label)

SPECIFICATION

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	Wheat Germ
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	MDLSAASHRIPLSDGNSIPIIGLGTYSEPKSTPKGACATSVKVAIDTGYRHIDGAYIYQ NEHEVGEAIREKIAEGKVRREDIFYCGKLWATNHVPEMVRPTLERTLRVLQLDYVDL YIIEVPMAFKPGDEIYPRDENGKWLHKSNLKATWEAMEACKDAGLVKSLGVSNFN RRQLELILNKPGLKHKPVSNQVECHPYFTQPCLKKFCQQHDIVITAYSPLGTSRNPIW VNVSSPPLLKDALLNSLGKRYNKTAQIVLRFNIQRGVVVVPKSFNLERIKENFQIFDF SLTEEMKDIEALNKNVRFVELLMWRDHPEYPFHDEY
Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array

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Notes	Best use within three months from the date of receipt of this protein.
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.

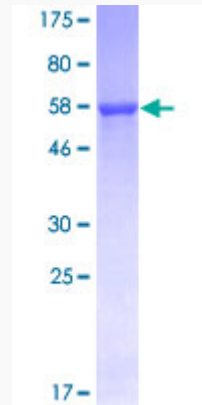
GENE INFORMATION

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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12.5% SDS-PAGE Stained with Coomassie Blue.

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