

Product datasheet for **TP323056M**

AKR1D1 (NM_005989) Human Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Recombinant protein of human aldo-keto reductase family 1, member D1 (delta 4-3-ketosteroid-5-beta-reductase) (AKR1D1), 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC223056 representing NM_005989
Red=Cloning site **Green**=Tags(s)

MDLSAASHRIPLSDGNSIPIIGLGTYSPEKSTPKGACATSVKVAIDTGYRHIDGAYIYQNEHEVGEAIRE
KIAEGKVRREDIFYCGKLWATNHVPEMVRPTLERTLRVLQLDYVDLYIIEVPMFAFKPGDEIYPRDENGKW
LYHKSNLCAWEAMEACKDAGLVKSLGVSNFNRRQLELILNKPLKHKPVSNQVECHPYFTQPKLLKFCQ
QHDIVITAYSPLGTSRNPWVNVSSPPLLKDALLNSLGKRYNKTAAQIVLRFNIQRGVVWIPKSFNLERI
KENFQIFDFSLTEEMKDIEALNKNVRFVELLMWRDHPEYPFHDEY

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-Myc/DDK

Predicted MW: 37.2 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Preparation: Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

Storage: Store at -80°C.

Stability: Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: [NP_005980](#)

Locus ID: 6718



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UniProt ID: [P51857](#)

RefSeq Size: 2692

Cytogenetics: 7q33

RefSeq ORF: 978

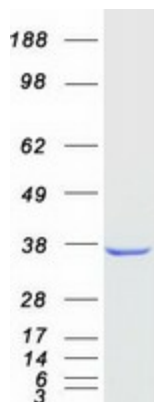
Synonyms: 3o5bred; CBAS2; SRD5B1

Summary: 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]

Protein Families: Druggable Genome

Protein Pathways: Androgen and estrogen metabolism, C21-Steroid hormone metabolism, Metabolic pathways, Primary bile acid biosynthesis

Product images:



Coomassie blue staining of purified AKR1D1 protein (Cat# [TP323056]). The protein was produced from HEK293T cells transfected with AKR1D1 cDNA clone (Cat# [RC223056]) using MegaTran 2.0 (Cat# [TT210002]).