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Product datasheet for PH323056

AKR1D1 (NM_005989) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AKR1D1 MS Standard C13 and N15-labeled recombinant protein (NP_005980)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC223056
Predicted MW:	37.2 kDa
Protein Sequence:	>RC223056 representing NM_005989 Red=Cloning site Green=Tags(s) MDLSAASHRIPLSDGNSIPIIGLGTYSEPKSTPKGACATSVKVAIDTGYRHIDGAYIYQNEHEVGEAIRE KIAEGKVRREDIFYCGKLWATNHVPEMVRPTLERTLRVLQLDYVDLYIIEVPMAFKPGDEIYPRDENGKW LYHKSNLCATWEAMEACKDAGLVKSLGVSNFNRRQLELILNKPGLKHKPVSNQVECHPYFTQPKLLKFCQ QHDIVITAYSPLGTSRNPIWVNVSSPPLLKDALLNSLGKRYNKTAAQIVLRFNIQRGVVVIPKSFNLERI KENFQIFDFSLTEEEMKDIEALNKNVRFVELLMWRDHPEYPFHDEY TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_005980
RefSeq Size:	2692
RefSeq ORF:	978
Synonyms:	3o5bred; CBAS2; SRD5B1
Locus ID:	6718

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UniProt ID: P51857

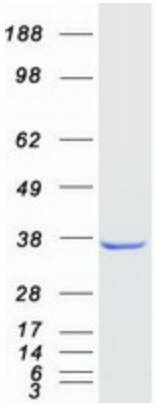
Cytogenetics: 7q33

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]).