

Product datasheet for PH309081

AKR1C2 (NM_205845) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AKR1C2 MS Standard C13 and N15-labeled recombinant protein (NP_995317)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC209081
Predicted MW:	36.7 kDa
Protein Sequence:	>RC209081 protein sequence Red=Cloning site Green=Tags(s) MDSKYQCVKLNDGHFMPVLGFGTYAPAIEVPSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIA DGSVKREDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVLPKDENGKILFD TVDLCATWEAMEKCKDAGLAKSIGVSNFNHRLLEMILNKPLKYPVCNQVECHPYFNQRKLLDFCKSKD IVLVAYSALGSHREEPWVDPNSPVLLEDVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQN VQVFEFQLTSEEMKAIDGLNRNVRYLTLDIFAGPPNYPFSDEY TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
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- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-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_995317
RefSeq Size:	3521
RefSeq ORF:	969
Synonyms:	AKR1C-pseudo; BABP; DD; DD-2; DD/BABP; DD2; DDH2; HAKRD; HBAB; MCDR2; SRXY8; TDD
Locus ID:	1646



[View online »](#)

UniProt ID: [P52895](#)

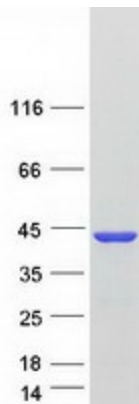
Cytogenetics: 10p15.1

Summary: This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding two different isoforms have been found for this gene. [provided by RefSeq, Dec 2011]

Protein Families: Druggable Genome

Protein Pathways: Metabolism of xenobiotics by cytochrome P450

Product images:



Coomassie blue staining of purified AKR1C2 protein (Cat# [TP309081]). The protein was produced from HEK293T cells transfected with AKR1C2 cDNA clone (Cat# [RC209081]) using MegaTran 2.0 (Cat# [TT210002]).