

Product datasheet for PH313437

AMACR (NM_014324) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	AMACR MS Standard C13 and N15-labeled recombinant protein (NP_055139)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC213437
Predicted MW:	42.7 kDa
Protein Sequence:	>Peptide sequence encoded by RC213437 Blue=ORF Red=Cloning site Green=Tag(s) MALQGISVMELSGLAPGPFAMVLAADFGARVVRVDRPGSRYDVSRLGRGKRSVLVDLKQPRGA AVLRRLLCKRSDVLLLEPFRRGVMEKQLGPEILQRENPLIYARLSGFGQSGSFCRLAGHDINYLALSGVLSKIGRSGENPYAPLNLLADFAGGGLMCALGIIMALFDRTRTDKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRTADGEFMAVGAIEPQFYELLIKGLGLKSDLPNQMSMDDWPEMKKKFADVFAKKTAEWCQIFDGTDACVTPVLTFFEEVVHHDHNRKERSFITSEEQDVSPRPAPLLLNTPAIPSFKRDPFIGEHTEEILEEFGFSREEIYQLNSDKIIESNKVKASL SGPTRTRPLEQKLISEEDLAANDILDYKDDDDKV Recombinant protein using RC213437 also available, TP313437
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_055139
RefSeq Size:	2534
RefSeq ORF:	1155
Synonyms:	AMACRD; CBAS4; P504S; RACE; RM



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Locus ID: 23600

UniProt ID: [Q9UHK6](#)

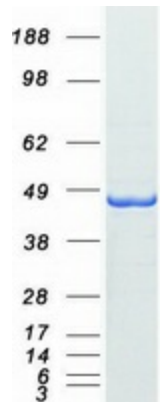
Cytogenetics: 5p13.2

Summary: This gene encodes a racemase. The encoded enzyme interconverts pristanoyl-CoA and C27-bile acylCoAs between their (R)- and (S)-stereoisomers. The conversion to the (S)-stereoisomers is necessary for degradation of these substrates by peroxisomal beta-oxidation. Encoded proteins from this locus localize to both mitochondria and peroxisomes. Mutations in this gene may be associated with adult-onset sensorimotor neuropathy, pigmentary retinopathy, and adrenomyeloneuropathy due to defects in bile acid synthesis. Alternatively spliced transcript variants have been described. Read-through transcription also exists between this gene and the upstream neighboring C1QTNF3 (C1q and tumor necrosis factor related protein 3) gene. [provided by RefSeq, Mar 2011]

Protein Families: Druggable Genome

Protein Pathways: Metabolic pathways, Primary bile acid biosynthesis

Product images:



Coomassie blue staining of purified AMACR protein (Cat# [TP313437]). The protein was produced from HEK293T cells transfected with AMACR cDNA clone (Cat# [RC213437]) using MegaTran 2.0 (Cat# [TT210002]).