Active Recombinant Full Length Human AMACR Protein, C-Flag-tagged

Cat. No. AMACR-257HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human AMACR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Bio-activity	ELISA capture for autoantibodies
Molecular Mass	42.2 kDa

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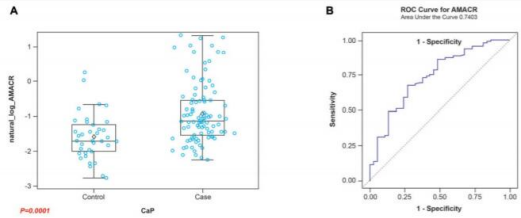
AA Sequence	MALQGISVMELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVL DLKQPRGAAVLRRL CKRSDVLLEPFRRGVMEKLQLGPEILQRENPRLIYARLSGFG QSGSFCRLAGHDINYLALSGVLSKIGR SGENPYAPLNLLADFAGGGLMCALGIIMAL FDRTRTDKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAP RGQNMLDGGAPFYTTY RTADGEFMAVGAIEPQFYELLIKGLGLKSDELPNQMSMDDWPEMKKKFADVFA KKT KAEWCQIFDGTDACVTPVLTFEEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPA IPSFKRDPF IGEHTEEILEEFGFSREEIYQLNSDKIIESNKVKASLSGPTRTRPLEQKLISEEDLAAND ILDYKDDDDKV		**Purity**	> 80% as determined by SDS-PAGE and Coomassie blue staining.		**Stability**	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.		**Storage**	Store at -80 centigrade.		**Concentration**	>50 ug/mL as determined by microplate BCA method.		**Preparation**	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.		**Protein Families**	Druggable Genome		**Protein Pathways**	Metabolic pathways, Primary bile acid biosynthesis		**Full Length**	Full L.

GENE INFORMATION

Gene Name	AMACR alpha-methylacyl-CoA racemase [Homo sapiens (human)]

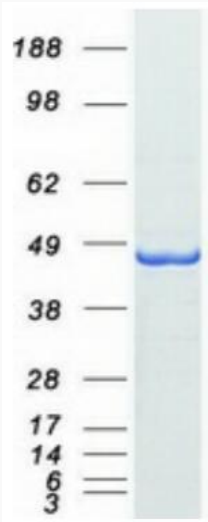
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Official Symbol	AMACR
Synonyms	RM; RACE; CBAS4; P504S; AMACRD
Gene ID	23600
mRNA Refseq	NM_014324.6
Protein Refseq	NP_055139.4
MIM	604489
UniProt ID	Q9UHK6



Boxplots of the reactivities of the autoantibodies in ELISA against AMACR in the sera of prostate cancer cases and healthy controls. Panel B shows the ROC curve for AMACR.

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Coomassie blue staining of purified AMACR protein.

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