

## Recombinant Human AMACR, His-tagged

Cat. No. AMACR-107H    Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human AMACR, transcript variant 2, fused with N-terminal HIS, was expressed in E.coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>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.</p>
<b>Molecular Mass</b>	22 kDa
<b>Purity</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Concentration</b>	>50 ug/mL as determined by microplate BCA method
<b>Storage Buffer</b>	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1 % Sarkosyl.

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## GENE INFORMATION

<b>Gene Name</b>	AMACR alpha-methylacyl-CoA racemase [ Homo sapiens (human) ]
<b>Official Symbol</b>	AMACR
<b>Synonyms</b>	AMACR; RM; RACE; CBAS4; AMACRD; alpha-methylacyl-CoA racemase; alpha-methylacyl-CoA racemase; 2-methylacyl-CoA racemase; NP_001161067.1; EC 5.1.99.4; NP_055139.4; NP_976316.1
<b>Gene ID</b>	23600
<b>mRNA Refseq</b>	NM_203382
<b>Protein Refseq</b>	NP_976316
<b>MIM</b>	604489
<b>UniProt ID</b>	Q9UHK6
<b>Chromosome Location</b>	5p13
<b>Pathway</b>	Beta-oxidation of pristanoyl-CoA; Bile acid biosynthesis, cholesterol => cholate/chenodeoxycholate; Peroxisomal lipid metabolism
<b>Function</b>	alpha-methylacyl-CoA racemase activity; receptor binding

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