

## Recombinant human AMACR

**Cat. No.** AMACR-3034H **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	a-Methylacyl CoA Racemase
<b>Species</b>	human
<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. [provided by RefSeq, Mar 2011]</p>
<b>Form</b>	Supplied as a liquid in 50mM Tris-Acetate, pH 7.5, 1mM EDTA, 20% glycerol.
<b>Purity</b>	Highly Purified~90% by RP-HPLC, FPLC, or reducing/non-reducing SDS-PAGE Silver Stain. Chromatographically purified.
<b>Applications</b>	Suitable for use in ELISA, Western Blot and Inhibition Assays.
<b>Notes</b>	Small volumes of AMACR recombinant protein may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container's

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cap. Certain products may require to ship with dry ice.

**Storage**

May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 6 months at -20 degree C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

**Warning**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">AMACR alpha-methylacyl-CoA racemase [ Homo sapiens ]</a>
<b>Official Symbol</b>	AMACR
<b>Synonyms</b>	AMACR; alpha-methylacyl-CoA racemase; RACE; 2-methylacyl-CoA racemase; RM; CBAS4; AMACRD;
<b>Gene ID</b>	<a href="#">23600</a>
<b>mRNA Refseq</b>	<a href="#">NM_001167595</a>
<b>Protein Refseq</b>	<a href="#">NP_001161067</a>
<b>MIM</b>	<a href="#">604489</a>
<b>UniProt ID</b>	<a href="#">Q9UHK6</a>
<b>Chromosome Location</b>	5p13.2-q11.1

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**Pathway**

Beta-oxidation of pristanoyl-CoA, organism-specific biosystem; Bile acid and bile salt metabolism, organism-specific biosystem; Bile acid biosynthesis, cholesterol =>cholate, organism-specific biosystem; Bile acid biosynthesis, cholesterol => cholate,

**Function**

alpha-methylacyl-CoA racemase activity; isomerase activity;

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