

Recombinant human AMACR

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

SPECIFICATION

Product Overview	a-Methylacyl CoA Racemase
Species	human
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. [provided by RefSeq, Mar 2011]
Form	Supplied as a liquid in 50mM Tris-Acetate, pH 7.5, 1mM EDTA, 20% glycerol.
Purity	Highly Purified~90% by RP-HPLC, FPLC, or reducing/non-reducing SDS-PAGE Silver Stain. Chromatographically purified.
Applications	Suitable for use in ELISA, Western Blot and Inhibition Assays.
Notes	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

Gene Name	AMACR alpha-methylacyl-CoA racemase [Homo sapiens]
Official Symbol	AMACR
Synonyms	AMACR; alpha-methylacyl-CoA racemase; RACE; 2-methylacyl-CoA racemase; RM; CBAS4; AMACRD;
Gene ID	23600
mRNA Refseq	NM_001167595
Protein Refseq	NP_001161067
MIM	604489
UniProt ID	Q9UHK6
Chromosome Location	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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