

# Recombinant Full Length Human AMACR Protein, GST-tagged

Cat. No. AMACR-1148HF Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	Human AMACR full-length ORF ( AAH09471, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	In Vitro Cell Free System
<b>ProteinLength</b>	198 amino acids
<b>Description</b>	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]
<b>Molecular Mass</b>	47.52 kDa
<b>AA Sequence</b>	MALQGISVME LSGLAPGPFC AMVLADFGAR VVRVDRPGSR YDVSRLGRGK RSLVLDLKQP RGA AVLRRRLC KRSDVLLLEPF RRGVMEKLQL GPEILQREN P RLIYARLSGF GQSGSFCRLA GHDINYLA LS GGRNSMFKFF SVENSEIESV

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GSTSRTEHVG WWSTFLYDLQ DSRWGIHGCW SNRTPVLRAA DQRTWTKV

**Applications**

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);  
Antibody Production; Protein Array

**Storage**

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

**Storage Buffer**

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

**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

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