

Recombinant Full Length Human AMACR Protein, GST-tagged

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

SPECIFICATION

Product Overview	Human AMACR full-length ORF (AAH09471, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	198 amino acids
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]
Molecular Mass	47.52 kDa
AA Sequence	MALQGISVME LSG LAPGPFC AMVLADFGAR VVRVDRPGSR YDVSRLGRGK RSLVLDLKQP RGA AVLRRRLC KRSDV LLEPF RRGVMEKLQL GPEILQREN P RLIYARLSGF GQSGSFCRLA GHDINYLALS GGRNSMFKFF SVENSEIESV

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

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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