

Recombinant Human AMACR protein, GST-tagged

Cat. No. AMACR-513H **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	Wheat Germ
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	MALQGISVMELSG LAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVL DLKQPRGAAVLRR LCKRSDV LLEPFRRGVMEKLQLGPEILQRENPR LIYARLSGFGQ SGSFCRLAGHDINYLALSGGRNSMFKFFSVENSEIESVGSTSRTEHVGWWSTFLYD LQDSRWGIHGCWSNRTPVLRAADQRTWTKV

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Applications	Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein); Antibody Production; Protein Array
Notes	Best use within three months from the date of receipt of this protein.
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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12.5% SDS-PAGE Stained with Coomassie Blue.

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