

Recombinant Human AMACR, GST-tagged

Cat. No. AMACR-111H **Lot. No.** (See product label)

SPECIFICATION

Product Overview Recombinant Human AMACR (1 a.a. - 198 a.a.) fused with GST-tag at N-terminal, was expressed in wheat germ.

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.

Molecular Mass 47.52 kDa

Sequence MALQGISVMELSGLAPGPFPCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVL
DLKQPRGAAVLRRLCKRSDVLLPEFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQ
SGSFCRLAGHDINYLALSGGRNSMFKFFSVENSEIESVGSTSRTEHVGWWSTFLYD
LQDSRWGIHGCWSNRTPVLRAADQRTWTKV

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Storagebuffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Applications	ELISA; WB
Storage	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
OfficialSymbol	AMACR

GENE INFORMATION

Gene Name	AMACR alpha-methylacyl-CoA racemase [Homo sapiens]
Synonyms	AMACR; RACE; CBAS4; AMACRD; alpha-methylacyl-CoA racemase; EC 5.1.99.4; 2-methylacyl-CoA racemase
Gene ID	23600
mRNA Refseq	NM_014324
Protein Refseq	NP_055139
MIM	604489
UniProt ID	Q9UHK6
Chromosome Location	5p13
Pathway	Metabolic pathways; Primary bile acid biosynthesis; Metabolism of lipids and lipoproteins
Function	alpha-methylacyl-CoA racemase activity; receptor binding

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