Recombinant Human AMACR, His-tagged

Cat. No. AMACR-107H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AMACR, transcript variant 2, fused with N-terminal HIS, was expressed in E.coli.
Species	Human
Source	E.coli
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	22 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method
Storage Buffer	25mM Tris, pH8.0, 150mM NaCl, 10% glycerol, 1 % Sarkosyl.

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GENE INFORMATION

Gene Name	AMACR alpha-methylacyl-CoA racemase [Homo sapiens (human)]
Official Symbol	AMACR
Synonyms	AMACR; RM; RACE; CBAS4; AMACRD; alpha-methylacyl-CoA racemase; alpha-methylacyl-CoA racemase; 2-methylacyl-CoA racemase; NP_001161067.1; EC 5.1.99.4; NP_055139.4; NP_976316.1
Gene ID	23600
mRNA Refseq	NM_203382
Protein Refseq	NP_976316
MIM	604489
UniProt ID	Q9UHK6
Chromosome Location	5p13
Pathway	Beta-oxidation of pristanoyl-CoA; Bile acid biosynthesis, cholesterol => cholate/chenodeoxycholate; Peroxisomal lipid metabolism
Function	alpha-methylacyl-CoA racemase activity; receptor binding

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