

Recombinant Human AMACR, MYC/DDK-tagged

Cat. No. AMACR-106H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human AMACR fused with C-terminal MYC/DDK, was expressed in HEK293 Cells.
Species	Human
Source	HEK293
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	42.2 kDa
Purity	>80% as determined by SDS-PAGE and Coomassie blue staining
Storagebuffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Concentration	>50 ug/mL as determined by microplate BCA method

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Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Storage	Store at -800C. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.
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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