

Recombinant Human AMACR Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. AMACR-6692H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	AMACR MS Standard C13 and N15-labeled recombinant protein (NP_055139) with a C-terminal MYC/DDK tag, 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
AA Sequence	MALQGISVMELSG LAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVL DLKQPRGA AVLRR LCKRSDV LLEPFRRGVMEKLQLGPEILQRENPR LIYARLSGFGQ SGSFCRLAGHDINYLALSGVLSKIGRSGENPYAPLNLLADFAGGGLMCALGIIMALFD

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RTRTDKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRT
ADGEFMAVGAIEPQFYELLIKGLGLKSDELPNQMSMDDWPEMKKKFADVFAKKTKA
EWCQIFDGTDACVTPVLTFEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIP
SFKRDPFIGEHTEEILEEFGFSREEIYQLNSDKIIESNKVKASLSGPGSPTRTRRLEQK
LISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [AMACR alpha-methylacyl-CoA racemase \[Homo sapiens \(human\) \]](#)

Official Symbol [AMACR](#)

Synonyms AMACR; alpha-methylacyl-CoA racemase; RACE; 2-methylacyl-CoA racemase; RM; CBAS4; AMACRD;

Gene ID [23600](#)

mRNA Refseq [NM_014324](#)

Protein Refseq [NP_055139](#)

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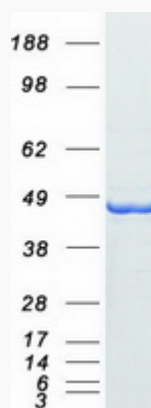
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MIM 604489

UniProt ID Q9UHK6

SDS-PAGE



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