

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	MALQGISMELSGLAPGPFPCAMVLADFGARVVRVDRPGSRDYDVSRLGRGKRSLVL DLKQPRGAAVLRRLCKRSDVLLPEFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQ SGSFCRLAGHDINYLALSGVLSKIGRSGENPYAPLNLADFAAGGLMCALGIIMALFD

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RTRTDKGGVIDANMVEGTAYLSSFLWKTQKSSLWEAPRGQNMLDGGAPFYTTYRT
 ADGEFMAVGAIEPQFYELLIKGLGLKSDLPNQMSMDDWPEMKKKFADVFAKKTKA
 EWCQIFDGTDACVTPVLTFFEEVVHHDHNKERGSFITSEEQDVSPRPAPLLLNTPAIP
 SFKRDPFIGEHTEEILEEFGFSREEIYQLNSDKIIESNKVKASLSGSPGPTRRRLEQK
 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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MIM 604489

UniProt ID Q9UHK6

SDS-PAGE



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