

Active Recombinant Full Length Human AMACR Protein, C-Flag-tagged

Cat. No. AMACR-257HFL **Lot. No.** (See product label)

SPECIFICATION

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|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Recombinant Full Length Human AMACR Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells. |
| Species | Human |
| Source | Mammalian Cells |
| 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. |
| Form | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol. |
| Bio-activity | ELISA capture for autoantibodies |
| Molecular Mass | 42.2 kDa |

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 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence

MALQGISVMELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVL
 DLKQPRGAAVLRRL CKRSDVLLLEPFRRGVMEKLQLGPEILQRENPRLIYARLSGFG
 QSGSFCRLAGHDINYLALSGVLSKIGR SGENPYAPLNLLADFAGGGLMCALGIIMAL
 FDRTRTDKGQVIDANMVEGTAYLSSFLWKTQKSSLWEAP RGQNMLDGGAPFYTTY
 RTADGEFMAVGAIEPQFYELLIKGLGLKSDELPNQMSMDDWPEMKKKFADVFA KKT
 KAEWCQIFDGTDACVTPVLTFFEEVVHHDHINKERGSFITSEEQDVSPRPAPLLLNTPA
 IPSFKRDPF
 IGEHTEEILEEFGFSREEIYQLNSDKIIESNKVKASLSGPTRTRPLEQKLISEEDLAAND
 ILDYKDDDDKV

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

Stability Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

Storage Store at -80 centigrade.

Concentration >50 ug/mL as determined by microplate BCA method.

Preparation Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families Druggable Genome

Protein Pathways Metabolic pathways, Primary bile acid biosynthesis

Full Length Full L.

GENE INFORMATION

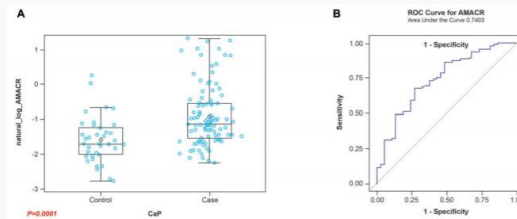
Gene Name [AMACR alpha-methylacyl-CoA racemase \[Homo sapiens \(human\) \]](#)

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| | |
|------------------------|--------------------------------|
| Official Symbol | AMACR |
| Synonyms | RM; RACE; CBAS4; P504S; AMACRD |
| Gene ID | 23600 |
| mRNA Refseq | NM_014324.6 |
| Protein Refseq | NP_055139.4 |
| MIM | 604489 |
| UniProt ID | Q9UHK6 |



Boxplots of the reactivities of the autoantibodies in ELISA against AMACR in the sera of prostate cancer cases and healthy controls. Panel B shows the ROC curve for AMACR.



Coomassie blue staining of purified AMACR protein.

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