

Full-Length

AMACR (Human) Recombinant Protein (P01)

Catalog # H00023600-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AMACR full-length ORF (AAH09471, 1 a.a. - 198 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MALQGISMELSGLAPGPFCAMVLADFGARVVRVDRPGSRYDVSRLGRGKRSLVLDLKQPRGA AVLRRRLCKRSDVLLPEFRRGVMEKLQLGPEILQRENPRLIYARLSGFGQSGSFCLAGHDINYLAL SGGRNSMFKFFSVENSEIESVGSTSRTEHVGWWSTFLYDLQDSRWGIHGCWSNRTPLRAADQ RTWTKV
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	47.52
Interspecies Antigen Sequence	Mouse (72); Rat (74)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AMACR

Entrez GeneID [23600](#)**GeneBank Accession#** [BC009471](#)**Protein Accession#** [AAH09471](#)**Gene Name** AMACR**Gene Alias** RACE**Gene Description** alpha-methylacyl-CoA racemase**Omim ID** [604489](#)**Gene Ontology** [Hyperlink](#)

Gene Summary Alpha-methylacyl-CoA racemase is responsible for the conversion of pristanoyl-CoA and C27-bile acyl-CoAs to their (S)-stereoisomers, which are the only stereoisomers that can be degraded via peroxisomal beta-oxidation.[supplied by OMIM]

Other Designations -

Publication Reference

- [Semen AMACR protein as a novel method for detecting prostate cancer.](#)

Etheridge T, Straus J, Ritter MA, Jarrard DF, Huang W.

Urologic Oncology 2018 Dec; 36(12):532. e1.

Application: ELISA, As a standard

Pathway

- [Metabolic pathways](#)
- [Primary bile acid biosynthesis](#)

Disease

- [Adenocarcinoma](#)
- [Adenoma](#)
- [Colon cancer](#)
- [Colonic Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Ovarian cancer](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Rectal Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)