

α -Methylacyl-CoA racemase 1

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	α -Methylacyl-CoA racemase 1 is an enzyme that catalyzes a critical chiral conversion step in the metabolism of branched-chain fatty acids and serves as a marker for prostate and other cancers.
Targets(IC50)	Endogenous Metabolite
In vitro	α -methylacyl-CoA racemase protein levels are elevated in all prostate and certain other cancer cells, making it useful as a marker. This enzyme functions without cofactors, facilitating reaction through stepwise 1,1-proton transfer via an enolate intermediate. Its role in cancer is intricate, linking lipid metabolism with nuclear receptor (e.g., FXR and PPAR) activity and the expression of enzymes like cyclooxygenase-2 (COX-2). α -methylacyl-CoA racemase 1 aids in confirming prostate cancer diagnosis, particularly when paired with basal cell markers. Microarray analysis shows high AMACR expression in tumors such as prostate adenocarcinomas (72%), hepatocellular carcinomas (77%), papillary renal cell carcinomas (70%), and colorectal adenocarcinomas (71%).

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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481