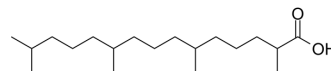


Pristanic acid

Cat. No.:	HY-113024		
CAS No.:	1189-37-3		
Molecular Formula:	C ₁₉ H ₃₈ O ₂		
Molecular Weight:	298.5		
Target:	Endogenous Metabolite		
Pathway:	Metabolic Enzyme/Protease		
Storage:	Pure form	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 50 mg/mL (167.50 mM; Need ultrasonic)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	3.3501 mL	16.7504 mL	33.5008 mL
5 mM	0.6700 mL	3.3501 mL	6.7002 mL
10 mM	0.3350 mL	1.6750 mL	3.3501 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Pristanic acid is an endogenous metabolite present in Blood that can be used for the research of Alpha Methylacyl CoA Racemase Deficiency and Zellweger Syndrome^{[1][2][3]}.

IC₅₀ & Target

Human Endogenous Metabolite

In Vitro

Endogenous metabolites is defined as those that are annotated by Kyoto Encyclopedia of Genes and Genomes as substrates or products of the ~1900 metabolic enzymes encoded in our genome. It is clear in the body of literature that there are documented toxic properties for many of these metabolites^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. McLean BN, et al. A new defect of peroxisomal function involving pristanic acid: a case report. J Neurol Neurosurg Psychiatry. 2002 Mar;72(3):396-9.

[2]. Baumgartner MR, et al. Clinical approach to inherited peroxisomal disorders: a series of 27 patients. *Ann Neurol*. 1998 Nov;44(5):720-30.

[3]. Lee N, et al. Endogenous toxic metabolites and implications in cancer therapy. *Oncogene*. 2020 Aug;39(35):5709-5720.

Caution: Product has not been fully validated for medical applications. For research use only.

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