

## Pristanic acid

## Chemical Properties

CAS No. : 1189-37-3

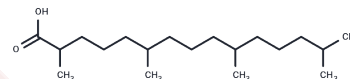
Formula: C19H38O2

Molecular Weight: 298.50

Keep away from direct sunlight

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	Pristanic acid is an endogenous branched-chain saturated fatty acid and a natural, specific ligand for peroxisome proliferator-activated receptor alpha (PPAR $\alpha$ ). Pristanic acid regulates the expression of genes related to fatty acid oxidation and lipid transport via the PPAR $\alpha$ pathway and can be used in research on fatty liver disease and atherosclerosis.
Targets(IC50)	Others,Endogenous Metabolite,PPAR

## Solubility Information

Solubility	DMSO: 40.00 mg/mL (134.00 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3501 mL	16.7504 mL	33.5008 mL
5 mM	0.670 mL	3.3501 mL	6.7002 mL
10 mM	0.335 mL	1.675 mL	3.3501 mL
50 mM	0.067 mL	0.335 mL	0.670 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

- Lee N, et al. Endogenous toxic metabolites and implications in cancer therapy. *Oncogene*. 2020;39(35):5709-5720.
- McLean BN, et al. A new defect of peroxisomal function involving pristanic acid: a case report. *J Neurol Neurosurg Psychiatry*. 2002;72(3):396-399.
- Baumgartner MR, et al. Clinical approach to inherited peroxisomal disorders: a series of 27 patients. *Ann Neurol*. 1998;44(5):720-730.

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